

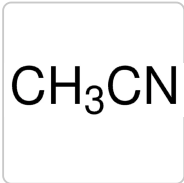
 **MERCK**

Insira o nome do produto, número da remessa, número do lote etc.



[◀ Voltar](#) [🏠](#) [▶ Acetonitrile](#) [▶ 34851](#)



34851

▶ Sigma-Aldrich

Copiar link

E-mail

Acetonitrilo

★★★★★

5.0 (3)

2 of 3 reviewers received a sample product or took part in a promotion

[Write a review](#)

suitable for HPLC, gradient grade, ≥99.9%

Todas as
fotos (2)

Documentos

[SDS](#)



COO/COA

[Folha de
especificação](#)

Mais
documentos

Sinônimo(s):

ACN, Cianeto de metila, Cianometano, Etil-nitrilo

Fórmula linear:

CH₃CN

Número CAS:	75-05-8	Peso molecular:	41.05
Beilstein:	741857	Número EC:	200-835-2
Número MDL:	MFCD00001878	eCl@ss:	39031501
ID de substância PubChem:	329755061	NACRES:	NA.03

[Faça login](#) to View Organizational & Contract Pricing

SKU	Tamanho da embalagem	Disponibilidade	Preço	Quantidade
34851-1L	1 L	Disponível para enviar em 11 de dezembro de 2023	Detalhes... R\$ 409,00	− + i
34851-4L	4 L	Previsão de entrega em 16 de abril de 2024	R\$ 551,00	− + i
34851-4X4L	4 x 4 L	Disponível para enviar em 11 de dezembro de 2023	Detalhes... R\$ 2.054,00	− + i

[Request a Bulk Order](#)

Adicionar ao carrinho

PROPRIEDADES

grau gradient grade

Nível de qualidade 100

densidade de vapor	1.41 (vs air)
pressão de vapor	72.8 mmHg (20 °C)
Ensaio	≥99.9%
forma	liquid
temperatura de autoignição	973 °F
Lim. expl.	16 %
baseline drift measuring range	≤15 mAU (210 nm)
technique(s)	HPLC: suitable
Impurezas	≤0.0002% free alkali (as NH ₃) ≤0.0005% non-volatile matter ≤0.001% free acid (as CH ₃ COOH) ≤0.02% water (Karl Fischer) ≤0.5 ppb fluorescence (quinine) at 365 nm ≤1 ppb fluorescence (quinine) at 254 nm
índice de refração	<i>n</i> _{20/D} 1.344 (lit.)
pb	81-82 °C (lit.)
pf	-45 °C (lit.)
densidade	0.786 g/mL at 25 °C (lit.)
Gradiente HPLC	≤0.5 mAU at 254 nm ≤3 mAU at 210 nm
Absorção UV	λ: 195 nm <i>A</i> _{max} : ≤0.12 λ: 200 nm <i>A</i> _{max} : ≤0.032 λ: 230 nm <i>A</i> _{max} : ≤0.0044 λ: 235 nm <i>A</i> _{max} : ≤0.0044 λ: 250 nm <i>A</i> _{max} : ≤0.0044 λ: 400 nm <i>A</i> _{max} : ≤0.0044
application(s)	food and beverages
formato	neat
temperatura de armazenamento	room temp

SMILES string	CC#N
InChI	1S/C2H3N/c1-2-3/h1H3
InChI key	WEVYAHXRMPXWCK-UHFFFAOYSA-N

Procurando produtos similares? Visit [Guia de comparação de produtos](#)

Categorias relacionadas

- Acetonitrile
- Analytical Chromatography Products
- Cannabis Testing Products for Cultivators, Producers & Testing Labs
- Solvents

COMPARAR ITENS SEMELHANTES

Show Differences ☐

CH₃CN

Sigma-Aldrich
34998
Acetonitrile

Consultar o preço e a disponibilidade

vapor density
1.41 (vs air)

vapor pressure
72.8 mmHg (20 °C)

assay
≥99.9%

form
liquid

autoignition temp.
973 °F

CH₃CN

Sigma-Aldrich
82063
Acetonitrile

Consultar o preço e a disponibilidade

vapor density
1.41 (vs air)

vapor pressure
72.8 mmHg (20 °C)

assay
≥99.8% (GC)

form
liquid

autoignition temp.
973 °F

DESCRIÇÃO

Descrição geral

O acetonitrilo (MeCN) é amplamente usado como solvente em vários estudos e tem uma constante dielétrica alta (37,5). Vários procedimentos de purificação para obter graus diferentes de acetonitrilo para uso em diferentes estudos (polarografia, espectroscopia, etc.) foram relatados por diversos pesquisadores.^[1]

Aplicação

O acetonitrilo (MeCN) pode ser usado como um solvente de extração durante a quantificação de resíduos de pesticidas em frutas e vegetais.^[2]

Embalagem

Visualize as [opções de recipiente retornável](#).

Nota de preparo

Produto filtrado em filtro de 0,2 µm

Outras notas

Recipientes Pure-Pac® II requerem o acoplador Micromatic MacroValve para dispensação de solventes, Z560723.

Aviso importante

- O artigo número 34851-4X2.5L será descontinuado. Encomende o frasco único 34851-2.5L, que é fisicamente idêntico, com exatamente as mesmas especificações.
- O artigo número 34851-6X1L será descontinuado. Encomende o frasco único 34851-1L, que é fisicamente idêntico, com exatamente as mesmas especificações.

Produtos recomendados

Descubra os reagentes LiChropur ideais para análise por [HPLC](#) ou [LC-MS](#)

Informações legais

Pure-Pac is a registered trademark of Sigma-Aldrich Co. LLC

PRODUTOS RELACIONADOS

Componente De Fase Móvel

G1007628

HPLC Analysis of Benalaxyl Enantiomers on Astec CYCLOBOND™ | 2000 HP-RSP in Reversed Phase Mode, application for HPLC

[View Pricing](#)

Geralmente Comprado Junto Com Este Produto

858143P

18:1 Lyso PS, Avanti Polar Lipids

[View Pricing](#)

Produto Relacionado

34885

Metanol, suitable for HPLC, gradient grade, ≥99.9%

[View Pricing](#)

439134

Acetonitrilo, suitable for HPLC, gradient grade, ≥99.9%

[View Pricing](#)

439193

Metanol, suitable for HPLC, gradient grade, suitable as ACS-grade LC reagent, ≥99.9%

[View Pricing](#)

1.11727

Etanol, gradient grade for liquid chromatography LiChrosolv®

[View Pricing](#)

WX0004

Água, gradient grade, Meets Reagent Specifications for testing USP/NF monographs OmniSolv®

[View Pricing](#)

1.06007

Metanol, gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur

[View Pricing](#)

1.01040

2-propanol, gradient grade for liquid chromatography LiChrosolv®

[View Pricing](#)

MX0488

Metanol, gradient grade OmniSolv®

[View Pricing](#)**AX0142**

Acetonitrilo, gradient grade OmniSolv®

[View Pricing](#)**1.00030**

Acetonitrilo, gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur

[View Pricing](#)**INFORMAÇÕES DE SEGURANÇA****Pictogramas****GHS02,GHS07****Palavra indicadora**

Danger

Frases de perigo**H225 - H302 + H312
+ H332 - H319****Declarações de
precaução****P210 - P280 - P301 +
P312 - P303 + P361 +
P353 - P304 + P340 +
P312 - P305 + P351 +
P338****Classificações de
perigo**Acute Tox. 4 Dermal -
Acute Tox. 4
Inhalation - Acute Tox.
4 Oral - Eye Irrit. 2 -
Flam. Liq. 2**Código de classe de
armazenamento**

3 - Flammable liquids

WGK

WGK 2

Ponto de fulgor (°F)

35.6 °F - closed cup

Ponto de fulgor (°C)

2.0 °C - closed cup

DOCUMENTAÇÃO**SDS****Folha de especificação****Certificados De Análise** **Certificado De Origem** **Mais Documentos**

Certificates of Analysis (COA)

Search for Certificates of Analysis (COA) by entering the products Lot/Batch Number. Lot and Batch Numbers can be found on a product's label following the words 'Lot' or 'Batch'.

Número do Lote

e.g. 023J5431

Pesquisar

Need A Sample COA?

This is a sample Certificate of Analysis (COA) and may not represent a recently manufactured lot of this specific product.

[Visualizar amostra COA](#)

Already Own This Product?

Documents related to the products that you have purchased in the past have been gathered in the Document Library for your convenience.

[Visit the Document Library](#)

Difficulty Finding Your Product Or Lot/Batch Number?

Como encontrar o número do produto



Como encontrar um número de lote para COA

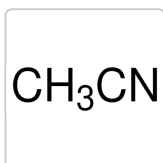


Não encontra o que está procurando?

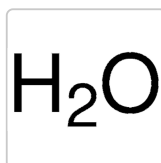
Em alguns casos, um COA pode não estar disponível on-line. Se a sua pesquisa não encontrou o COA, você pode solicitar um.

[Solicitar COA](#)

OS CLIENTES TAMBÉM VISUALIZARAM



Supelco
1.14291
Acetonitrile



Sigma-Aldrich
270733
Water

[Consultar o preço e a disponibilidade](#)[Consultar o preço e a disponibilidade](#)

ARTIGOS REVISADOS POR PARES

Fast and easy multiresidue method employing acetonitrile extraction/partitioning and "dispersive solid-phase extraction" for the determination of pesticide residues in produce.

Michelangelo Anastassiades et al.

Journal of AOAC International, 86(2), 412-431 (2003-05-02)

A simple, fast, and inexpensive method for the determination of pesticide residues in fruits and vegetables is introduced. The procedure involves initial single-phase extraction of 10 g sample with 10 mL acetonitrile, followed by liquid-liquid partitioning formed by addition of

Purification of acetonitrile.

Walter M and Ramaley L.

Analytical Chemistry, 45(1), 165-166 (1973)

An integrated workflow for charting the human interaction proteome: insights into the PP2A system.

Timo Glatter et al.

Molecular systems biology, 5, 237-237 (2009-01-22)

Protein complexes represent major functional units for the execution of biological processes. Systematic affinity purification coupled with mass spectrometry (AP-MS) yielded a wealth of information on the compendium of protein complexes expressed in *Saccharomyces cerevisiae*. However, global AP-MS analysis of

Analysis of changes in SUMO-2/3 modification during breast cancer progression and metastasis.

Divya Subramonian et al.

Journal of proteome research, 13(9), 3905-3918 (2014-07-30)

SUMOylation is an essential posttranslational modification and regulates many cellular processes. Dysregulation of SUMOylation plays a critical role in metastasis, yet how its perturbation affects this lethal process of cancer is not well understood. We found that SUMO-2/3 modification is

Sitagliptin, a DPP-4 inhibitor, acutely inhibits intestinal lipoprotein particle secretion in healthy humans.

Changting Xiao et al.

Diabetes, 63(7), 2394-2401 (2014-03-04)

The dipeptidyl peptidase-4 inhibitor sitagliptin, an antidiabetic agent, which lowers blood glucose levels, also reduces postprandial lipid excursion after a mixed meal. The underlying mechanism of this effect, however, is not clear. This study examined the production and clearance of

[Exibir todos os documentos relacionados](#)

PROTOCOLOS E ARTIGOS

Artigos

[The Carbon Enigma: Material Fundamentals and Retention Properties for Porous Graphitic Carbon \(PGC\) Stationary Phases](#)

A shortened review of fundamentals of Porous Graphitic Carbon (PGC) materials. What they are and how do they work as a stationary phase material in HPLC?.

[Workflow for Cannabinoids Analysis in Hemp and Hemp-Infused Products](#)

A step-by-step workflow for the sample preparation of hemp bud, hemp oil, chocolate, gummy, candy, and cream for the HPLC-PDA separation and analysis of 17 cannabinoids.

[Tabela de miscibilidade da solvente](#)

Afirma-se que as substâncias são miscíveis se se dissolverem para formar uma solução uniforme. Marque ou baixe nossa tabela de miscibilidade para solventes comuns de laboratório.

[Applications of Newly Developed 2.7 µm Porous Graphitic Carbon Particles in U/HPLC](#)

Polar graphitic carbon (2.7 µm) based Ultra/High-performance liquid chromatographic separation of four highly polar pesticides, two polar herbicides—paraquat & diquat, and Vitamin D and its metabolites.

[Ver tudo >](#)

Protocolos

[HPLC Analysis of the Monoclonal Antibody \(mAb\) Erbitux \(Cetuximab\) on BIOshell A400 Protein C4](#)

HPLC Analysis of the Monoclonal Antibody (mAb) Erbitux (Cetuximab) on BIOshell™ A400 Protein C4

Conteúdo relacionado

[Cleanup and Concentration of Trace-level Analytes from Complex Matrices Using ZipTip® Micro-SPE Pipette Tips](#)

ZipTip® micro-SPE pipette tips are used as a single-step desalting, concentration, and purification tool for complex samples before mass spec analyses.

Chromatograms

[HPLC Analysis of Benalaxyl Enantiomers on Astec CYCLOBOND™ I 2000 HP-RSP in Reversed Phase Mode](#)

application for HPLC



5.0 | [3 Reviews](#)

**3**
Reviews**6**
Questions**6**
Answers

Questions

[Ask a question](#)

1–6 of 6 Questions

Sort by: ▼

Anonymous · 3 months ago

1

answer

IS THERE ANY INFORMATION AVAILABLE REGARDING THE PRODUCT'S QUANTITY AND VOLUME?

Technical Support · 3 months ago

This product is offered 100ml, 1L, 2L, 4L, 56L, and 200L package sizes. All available schematics are listed on this product page. See the SKU list at the top of this page for details.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Jesper · 9 months ago

1

answer

IS THE 100 ML BOTTLE OF ACETONITRILE PACKED UNDER INERT ATMOSPHERE?

Technical Support · 8 months ago

Yes, the product is packaged under nitrogen.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · a year ago

1

answer

What is the surface tension of Acetonitrile, Product 34851?

Technical Support · a year ago

The surface tension is 29.04 dynes/cm at 20°C, according to the chemicals encyclopedia published by the Royal Society of Chemistry, 12th ed., Entry# 68.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · a year ago

1

answer

What is the viscosity of Acetonitrile, Product 34851?

Technical Support · a year ago

The viscosity is 0.38 cP at 15°C.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · a year ago

1
answer

What is the Department of Transportation shipping information for this product?

Technical Support · a year ago

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Anonymous · a year ago

1
answer

What is the flash point of Acetonitrile, Product 34851?

Technical Support · a year ago

The flash point is 2.0°C.

Helpful? [Yes · 0](#) [No · 0](#) [Report](#)

Reviews

[Write a review](#)

2 of 3 reviewers received a sample product or took part in a promotion

Rating Snapshot

Select a row below to filter reviews.

5 ★	3
4 ★	0
3 ★	0
2 ★	0
1 ★	0

Average Customer Ratings

Overall ★★★★★ 5.0

1–2 of 3 Reviews

[?](#) Sort by: Most Relevant ▾ 

Emily

Yulee, FL

Review 1

Vote 1

★★★★★ · a year ago

 Charitable Donation**QUICK AND PAINLESS**

A very quick and easy purchase! Was given everything we needed to track our order and it came on time.

Received an incentive for this review Yes

Helpful? [Yes · 1](#) [No · 0](#) [Report](#)

Anonymous

Søborg Denmark

Review 1

Vote 1

★★★★★ · a year ago

 Charitable Donation**ACETONITRILE 34851**

We have for years been using Sigma34851 for our HPLC analytical as well as prep, and been most happy

Received an incentive for this review Yes

Recommends this product  YesHelpful? [Yes · 1](#) [No · 0](#) [Report](#)**1 RATINGS-ONLY REVIEW****ASSISTÊNCIA TÉCNICA**

Nossa equipe de cientistas tem experiência em todas as áreas de pesquisa, incluindo Life Sciences, ciência de materiais, síntese química, cromatografia, química analítica e muitas outras.

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