

# Diethyl 4,4'-azoxydibenzoate

**Other names:**

Azoxybenzene-4,4'-dicarboxylic acid biethyl ester  
Benzoic acid, 4,4'-azoxybis-, diethyl ester  
Benzoic acid, 4,4'-azoxydi-, diethyl ester  
Diethyl azoxybenzene-4,4'-dicarboxylate  
Diethyl 4,4'-azoxybenzoate  
Diethyl azoxybenzoate  
Diethyl p,p'-azoxybenzoate  
4,4'-Azoxybenzoic acid diethyl ester  
Benzoic acid, 4,4'-(1-oxido-1,2-diazenediyl)bis-, 1,1'-diethyl ester  
Benzoic acid, p,p'-azoxydi-, diethyl ester  
NSC 401032  
diethyl 4,4'-azoxybisbenzoate  
Ethyl azoxybenzenedicarboxylate

**Inchi:** InChI=1S/C18H18N2O5/c1-3-24-17(21)13-5-9-15(10-6-13)19-20(23)16-11-7-14(8-12-16)**InchiKey:** LOOVRYZFUGHEMF-UHFFFAOYSA-N**Formula:** C18H18N2O5**SMILES:** CCOC(=O)c1ccc(N=[N+](O-))c2ccc(C(=O)OCC)cc2)cc1**Mol. weight [g/mol]:** 342.35**CAS:** 6421-04-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.73		Crippen Method
logp	3.966		Crippen Method
mvol	253.370	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	451.00	J/molxK	303.00	NIST Webbook
hfust	20.48	kJ/mol	386.90	NIST Webbook
sfust	52.90	J/molxK	386.90	NIST Webbook

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6421041&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6421041&amp;Units=SI</a>

# Legend

<b>cps:</b>	Solid phase heat capacity
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>sfust:</b>	Entropy of fusion at a given temperature

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