

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)cc2cc1
Mol. weight [g/mol]:	342.35

Physical Properties

Property code	Value	Unit	Source
af	0.9308		Cheméo Relay (1.0)
hf	-430.73	kJ/mol	Cheméo Relay (1.0)
hvap	109.15	kJ/mol	Cheméo Relay (1.0)
ie	8.48	eV	Cheméo Relay (1.0)
log10ws	-4.87		Cheméo Relay (1.0)
logp	3.966		Crippen Method
mcvol	253.370	ml/mol	McGowan Method
pc	1693.02	kPa	Cheméo Relay (1.0, beta)
tb	664.81	K	Cheméo Relay (1.0)
tc	942.26	K	Cheméo Relay (1.0)
tf	345.18	K	Cheméo Relay (1.0)

Temperature Dependent Properties

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

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C6421041&Units=SI>

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
cps:	Solid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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