

N,N,N',N'-TETRAETHYLSULFAMIDE

Other names:	N-(diethylsulfamoyl)-N-ethylethanamine
Inchi:	InChI=1S/C8H20N2O2S/c1-5-9(6-2)13(11,12)10(7-3)8-4/h5-8H2,1-4H3
InchiKey:	IYIAWAACGTUPCC-UHFFFAOYSA-N
Formula:	C8H20N2O2S
SMILES:	CCN(CC)S(=O)(=O)N(CC)CC
Mol. weight [g/mol]:	208.33

Physical Properties

Property code	Value	Unit	Source
hfl	-635.50 ± 9.90	kJ/mol	NIST Webbook
hfus	33.90	kJ/mol	Joback Method
log10ws	-1.14		Aqueous Solubility Prediction Method
logp	0.915		Crippen Method
mcvol	171.630	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.92	J/mol×K	455.10	Joback Method
cpg	389.16	J/mol×K	481.68	Joback Method
cpg	403.79	J/mol×K	508.26	Joback Method
cpg	417.81	J/mol×K	534.83	Joback Method
cpg	431.25	J/mol×K	561.41	Joback Method
cpg	444.10	J/mol×K	587.99	Joback Method
cpg	456.39	J/mol×K	614.57	Joback Method
hvapt	59.10	kJ/mol	467.50	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2832497&Units=SI>

Legend

cpg:	Ideal gas heat capacity
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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