

3,4-Diethyl-3,4-dimethoxyhexane

Inchi:	InChI=1S/C12H26O2/c1-7-11(8-2,13-5)12(9-3,10-4)14-6/h7-10H2,1-6H3
InchiKey:	KGFJBMIBGUJGSB-UHFFFAOYSA-N
Formula:	C12H26O2
SMILES:	CCC(CC)(OC)C(CC)(CC)OC
Mol. weight [g/mol]:	202.33
CAS:	125379-19-3

Physical Properties

Property code	Value	Unit	Source
chl	-7866.00 ± 3.00	kJ/mol	NIST Webbook
gf	-154.16	kJ/mol	Joback Method
hf	-512.00 ± 3.00	kJ/mol	NIST Webbook
hfus	14.38	kJ/mol	Joback Method
hvap	44.53	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.397		Crippen Method
mcvol	191.680	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
tb	512.34	K	Joback Method
tc	691.40	K	Joback Method
tf	274.30	K	Joback Method
vc	0.722	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.49	J/molxK	691.40	Joback Method
cpg	553.13	J/molxK	661.56	Joback Method
cpg	538.02	J/molxK	631.71	Joback Method
cpg	522.13	J/molxK	601.87	Joback Method
cpg	505.43	J/molxK	572.03	Joback Method
cpg	487.91	J/molxK	542.18	Joback Method
cpg	469.53	J/molxK	512.34	Joback Method
dvisc	0.0051695	Paxs	274.30	Joback Method

dvisc	0.0001319	Paxs	512.34	Joback Method
dvisc	0.0001881	Paxs	472.67	Joback Method
dvisc	0.0002863	Paxs	432.99	Joback Method
dvisc	0.0004741	Paxs	393.32	Joback Method
dvisc	0.0008793	Paxs	353.65	Joback Method
dvisc	0.0019063	Paxs	313.97	Joback Method
hvapt	60.00 ± 1.00	kJ/mol	302.20	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C125379193&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization 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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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