

3-Hexanol, 3,4-diethyl-

Inchi:	InChI=1S/C10H22O/c1-5-9(6-2)10(11,7-3)8-4/h9,11H,5-8H2,1-4H3
InchiKey:	WKHFIEUDEJOTPQ-UHFFFAOYSA-N
Formula:	C10H22O
SMILES:	CCC(CC)C(O)(CC)CC
Mol. weight [g/mol]:	158.28
CAS:	19398-78-8

Physical Properties

Property code	Value	Unit	Source
gf	-103.10	kJ/mol	Joback Method
hf	-415.99	kJ/mol	Joback Method
hfus	14.81	kJ/mol	Joback Method
hvap	52.85	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.974		Crippen Method
mcvol	157.630	ml/mol	McGowan Method
pc	2358.78	kPa	Joback Method
tb	516.71	K	Joback Method
tc	686.53	K	Joback Method
tf	250.70	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.78	J/molxK	516.71	Joback Method
cpg	398.19	J/molxK	545.01	Joback Method
cpg	411.92	J/molxK	573.32	Joback Method
cpg	425.02	J/molxK	601.62	Joback Method
cpg	437.50	J/molxK	629.92	Joback Method
cpg	449.39	J/molxK	658.22	Joback Method
cpg	460.72	J/molxK	686.53	Joback Method
dvisc	0.0899105	Paxs	250.70	Joback Method
dvisc	0.0128169	Paxs	295.03	Joback Method

dvisc	0.0030395	Paxs	339.37	Joback Method
dvisc	0.0010052	Paxs	383.71	Joback Method
dvisc	0.0004181	Paxs	428.04	Joback Method
dvisc	0.0002050	Paxs	472.38	Joback Method
dvisc	0.0001136	Paxs	516.71	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C19398788&Units=SI

Legend

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
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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