

Propane, 1,1,3-triethoxy-

Other names:	«beta»-Ethoxypropionaldehyde diethyl acetal 3-Ethoxypropionaldehyde diethyl acetal Propionaldehyde, 3-ethoxy-, diethyl acetal 1,1,3-Triethoxypropane Propane, 1,3,3-triethoxy- 1,3,3-Triethoxypropane
Inchi:	InChI=1S/C9H20O3/c1-4-10-8-7-9(11-5-2)12-6-3/h9H,4-8H2,1-3H3
InchiKey:	LGICWIVABSMSDK-UHFFFAOYSA-N
Formula:	C9H20O3
SMILES:	CCOCCC(OCC)OCC
Mol. weight [g/mol]:	176.25
CAS:	7789-92-6

Physical Properties

Property code	Value	Unit	Source
gf	-292.54	kJ/mol	Joback Method
hf	-631.03	kJ/mol	Joback Method
hfus	19.11	kJ/mol	Joback Method
hvap	42.47	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.812		Crippen Method
mcvol	155.280	ml/mol	McGowan Method
pc	2214.53	kPa	Joback Method
rinpol	1076.00		NIST Webbook
rinpol	1079.00		NIST Webbook
rinpol	1075.00		NIST Webbook
rinpol	1075.00		NIST Webbook
ripol	1303.00		NIST Webbook
ripol	1290.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1299.00		NIST Webbook
tb	458.20	K	NIST Webbook
tc	638.87	K	Joback Method
tf	242.88	K	Joback Method
vc	0.588	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.72	J/molxK	472.14	Joback Method
cpg	364.45	J/molxK	499.93	Joback Method
cpg	377.80	J/molxK	527.72	Joback Method
cpg	390.78	J/molxK	555.51	Joback Method
cpg	403.38	J/molxK	583.29	Joback Method
cpg	415.57	J/molxK	611.08	Joback Method
cpg	427.36	J/molxK	638.87	Joback Method
dvisc	0.0032731	Paxs	242.88	Joback Method
dvisc	0.0013655	Paxs	281.09	Joback Method
dvisc	0.0007023	Paxs	319.30	Joback Method
dvisc	0.0004163	Paxs	357.51	Joback Method
dvisc	0.0002730	Paxs	395.72	Joback Method
dvisc	0.0001929	Paxs	433.93	Joback Method
dvisc	0.0001441	Paxs	472.14	Joback Method

Sources

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=C7789926&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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