

Propane, 1,2,3-trimethoxy-

Other names:	Glycerol trimethyl ether 1,2,3-Trimethyl glycerol triether
Inchi:	InChI=1S/C6H14O3/c1-7-4-6(9-3)5-8-2/h6H,4-5H2,1-3H3
InchiKey:	CAYMIAFKNJGSOR-UHFFFAOYSA-N
Formula:	C6H14O3
SMILES:	COCC(COC)OC
Mol. weight [g/mol]:	134.17
CAS:	20637-49-4

Physical Properties

Property code	Value	Unit	Source
gf	-317.80	kJ/mol	Joback Method
hf	-569.11	kJ/mol	Joback Method
hfus	11.34	kJ/mol	Joback Method
hvap	35.79	kJ/mol	Joback Method
log10ws	0.29		Crippen Method
logp	0.294		Crippen Method
mcvol	113.010	ml/mol	McGowan Method
pc	2963.34	kPa	Joback Method
rinpol	898.00		NIST Webbook
rinpol	898.00		NIST Webbook
tb	403.50	K	Joback Method
tc	573.01	K	Joback Method
tf	209.07	K	Joback Method
vc	0.419	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.23	J/molxK	403.50	Joback Method
cpg	237.35	J/molxK	431.75	Joback Method
cpg	247.29	J/molxK	460.00	Joback Method
cpg	257.05	J/molxK	488.25	Joback Method
cpg	266.60	J/molxK	516.51	Joback Method

cpg	275.94	J/molxK	544.76	Joback Method
cpg	285.05	J/molxK	573.01	Joback Method
dvisc	0.0033162	Paxs	209.07	Joback Method
dvisc	0.0014587	Paxs	241.47	Joback Method
dvisc	0.0007793	Paxs	273.88	Joback Method
dvisc	0.0004754	Paxs	306.28	Joback Method
dvisc	0.0003188	Paxs	338.69	Joback Method
dvisc	0.0002292	Paxs	371.10	Joback Method
dvisc	0.0001738	Paxs	403.50	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=C20637494&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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