

Tris(2-hydroxypropyl)glycerol

Inchi:	InChI=1S/C12H26O6/c1-9(13)4-16-7-12(18-6-11(3)15)8-17-5-10(2)14/h9-15H,4-8H2,1-3H3
InchiKey:	YCLPGJNGJKQAJY-UHFFFAOYSA-N
Formula:	C12H26O6
SMILES:	CC(O)COCC(COCC(C)O)OCC(C)O
Mol. weight [g/mol]:	266.33
CAS:	6481-06-7

Physical Properties

Property code	Value	Unit	Source
gf	-685.06	kJ/mol	Joback Method
hf	-1165.48	kJ/mol	Joback Method
hfus	28.57	kJ/mol	Joback Method
hvap	98.02	kJ/mol	Joback Method
log10ws	-0.35		Crippen Method
logp	-0.453		Crippen Method
mcvol	215.160	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
tb	816.00	K	Joback Method
tc	999.08	K	Joback Method
tf	414.15	K	Joback Method
vc	0.794	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	689.51	J/mol×K	816.00	Joback Method
cpg	743.39	J/mol×K	968.57	Joback Method
cpg	734.16	J/mol×K	938.05	Joback Method
cpg	724.15	J/mol×K	907.54	Joback Method
cpg	713.38	J/mol×K	877.03	Joback Method
cpg	701.83	J/mol×K	846.51	Joback Method
cpg	751.84	J/mol×K	999.08	Joback Method
dvisc	0.0000004	Pa×s	816.00	Joback Method
dvisc	0.0000010	Pa×s	749.03	Joback Method

dvisc	0.0000025	Pa×s	682.05	Joback Method
dvisc	0.0000077	Pa×s	615.08	Joback Method
dvisc	0.0000315	Pa×s	548.10	Joback Method
dvisc	0.0001919	Pa×s	481.12	Joback Method
dvisc	0.0020987	Pa×s	414.15	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C6481067&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

Latest version available from:

<https://www.chemeo.com/cid/93-829-9/Tris-2-hydroxypropyl-glycerol.pdf>

Generated by Cheméo on 2025-12-05 21:41:59.432939156 +0000 UTC m=+4719116.962979837.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.