CH3O[CH2CH2CH2O]3CH3

Inchi: InChI=1S/C11H24O4/c1-12-6-3-8-14-10-5-11-15-9-4-7-13-2/h3-11H2,1-2H3
InchiKey: TTYHFEHZJTWHNB-UHFFFAOYSA-N
Formula: C11H24O4
SMILES: COCCCOCCCOCCCOC
Mol. weight [g/mol]: 220.31
CAS: 66226-75-3

Physical Properties

Property code	Value	Unit	Source
basg	895.10	kJ/mol	NIST Webbook
gf	-378.26	kJ/mol	Joback Method
hf	-799.25	kJ/mol	Joback Method
hfus	29.00	kJ/mol	Joback Method
hvap	49.72	kJ/mol	Joback Method
log10ws	-0.78		Crippen Method
logp	1.483		Crippen Method
mcvol	189.330	ml/mol	McGowan Method
pc	1823.17	kPa	Joback Method
tb	540.76	K	Joback Method
tc	702.54	K	Joback Method
tf	302.65	K	Joback Method
vc	0.724	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.43	J/mol×K	540.76	Joback Method
cpg	542.39	J/mol×K	675.58	Joback Method
cpg	529.12	J/mol×K	648.62	Joback Method
cpg	515.37	J/mol×K	621.65	Joback Method
cpg	501.17	J/mol×K	594.69	Joback Method
cpg	486.52	J/mol×K	567.72	Joback Method
cpg	555.18	J/mol×K	702.54	Joback Method
dvisc	0.0001023	Pa×s	540.76	Joback Method

dvisc	0.0001339	Pa×s	501.07	Joback Method
dvisc	0.0001834	Pa×s	461.39	Joback Method
dvisc	0.0002666	Pa×s	421.70	Joback Method
dvisc	0.0004190	Pa×s	382.02	Joback Method
dvisc	0.0007311	Pa×s	342.33	Joback Method
dvisc	0.0014762	Pa×s	302.65	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=C66226753&Units=SI

Legend

basg:	Gas basicity
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