

CH₂CH₂CH₂OH

Inchi: InChI=1S/C3H7O/c1-2-3-4/h4H,1-3H2
InchiKey: QOXOZONBQWIKDA-UHFFFAOYSA-N
Formula: C₃H₇O
SMILES: [CH₂]CCO
Mol. weight [g/mol]: 59.09
CAS: 31594-81-7

Physical Properties

Property code	Value	Unit	Source
affp	736.00	kJ/mol	NIST Webbook
basg	703.50	kJ/mol	NIST Webbook
gf	-110.06	kJ/mol	Joback Method
hf	-201.67	kJ/mol	Joback Method
hfus	9.30	kJ/mol	Joback Method
hvap	38.80	kJ/mol	Joback Method
log10ws	0.05		Crippen Method
logp	0.203		Crippen Method
mcvol	56.850	ml/mol	McGowan Method
pc	5327.93	kPa	Joback Method
tb	359.52	K	Joback Method
tc	518.70	K	Joback Method
tf	200.76	K	Joback Method
vc	0.213	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	96.05	J/mol×K	359.52	Joback Method
cpg	120.33	J/mol×K	492.17	Joback Method
cpg	116.00	J/mol×K	465.64	Joback Method
cpg	111.43	J/mol×K	439.11	Joback Method
cpg	106.59	J/mol×K	412.58	Joback Method
cpg	101.47	J/mol×K	386.05	Joback Method
cpg	124.41	J/mol×K	518.70	Joback Method

dvisc	0.0004965	Paxs	359.52	Joback Method
dvisc	0.0007486	Paxs	333.06	Joback Method
dvisc	0.0012117	Paxs	306.60	Joback Method
dvisc	0.0021480	Paxs	280.14	Joback Method
dvisc	0.0042908	Paxs	253.68	Joback Method
dvisc	0.0100699	Paxs	227.22	Joback Method
dvisc	0.0295921	Paxs	200.76	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=C31594817&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

affp:	Proton affinity
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

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