

Hydroxymethyl acetate

Other names:	Methylene glycol monoacetate
Inchi:	InChI=1S/C3H6O3/c1-3(5)6-2-4/h4H,2H2,1H3
InchiKey:	JYVNDCLJHKQUHE-UHFFFAOYSA-N
Formula:	C3H6O3
SMILES:	CC(=O)OCO
Mol. weight [g/mol]:	90.08
CAS:	86011-33-8

Physical Properties

Property code	Value	Unit	Source
gf	-396.36	kJ/mol	Joback Method
hf	-502.28	kJ/mol	Joback Method
hfus	10.40	kJ/mol	Joback Method
hvap	48.11	kJ/mol	Joback Method
log10ws	0.30		Crippen Method
logp	-0.501		Crippen Method
mcvol	66.440	ml/mol	McGowan Method
pc	5343.52	kPa	Joback Method
tb	436.51	K	Joback Method
tc	611.34	K	Joback Method
tf	256.55	K	Joback Method
vc	0.246	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	129.32	J/mol×K	436.51	Joback Method
cpg	134.49	J/mol×K	465.65	Joback Method
cpg	139.52	J/mol×K	494.79	Joback Method
cpg	144.41	J/mol×K	523.92	Joback Method
cpg	149.15	J/mol×K	553.06	Joback Method
cpg	153.74	J/mol×K	582.20	Joback Method
cpg	158.17	J/mol×K	611.34	Joback Method
dvisc	0.0190072	Pa×s	256.55	Joback Method

dvisc	0.0063665	Pa×s	286.54	Joback Method
dvisc	0.0026236	Pa×s	316.54	Joback Method
dvisc	0.0012605	Pa×s	346.53	Joback Method
dvisc	0.0006806	Pa×s	376.52	Joback Method
dvisc	0.0004025	Pa×s	406.52	Joback Method
dvisc	0.0002559	Pa×s	436.51	Joback Method

Sources

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=C86011338&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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/91-628-4/Hydroxymethyl-acetate.pdf>

Generated by Cheméo on 2025-12-06 01:54:29.084059724 +0000 UTC m=+4734266.614100379.

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