Propenoic acid, 2-methyl-, hydroxypropyl ester

Other names: 1,3-Propylene glycol methacrylate
3-Hydroxypropyl methacrylate
Methacrylic acid, 3-hydroxypropyl ester
Propenoic acid, 2-methyl-, hydroxypropyl ester

Inchi: InChI=1S/C7H12O3/c1-6(2)7(9)10-5-3-4-8/h8H,1,3-5H2,2H3

InchiKey: GNSFRPWPOGYVLO-UHFFFAOYSA-N

Formula: C7H12O3

SMILES: C=C(C)C(=O)OCCCO

Mol. weight [g/mol]: 144.17

Physical Properties

Property code	Value	Unit	Source
hf	-549.46	kJ/mol	Cheméo Relay (1.0)
hfus	18.17	kJ/mol	Joback Method
hvap	68.74	kJ/mol	Cheméo Relay (1.0)
ie	9.92	eV	Cheméo Relay (1.0)
log10ws	-0.16		Cheméo Relay (1.0)
logp	0.488		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
tb	485.85	K	Cheméo Relay (1.0)
tf	262.77	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.82	J/mol×K	524.59	Joback Method
cpg	279.15	J/mol×K	553.84	Joback Method
cpg	288.11	J/mol×K	583.09	Joback Method
cpg	296.68	J/mol×K	612.34	Joback Method
cpg	304.90	J/mol×K	641.59	Joback Method
cpg	312.75	J/mol×K	670.85	Joback Method
cpg	320.24	J/mol×K	700.10	Joback Method

Sources

Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2761093&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point