

hydroxyl-t

Inchi:	InChI=1S/HO/h1H/i1T
InchiKey:	TUJKJAMUKRIRHC-CNRUNOGKSA-N
Formula:	OT
SMILES:	[OH]
Mol. weight [g/mol]:	19.02
CAS:	83285-60-3

Physical Properties

Property code	Value	Unit	Source
gf	-135.32	kJ/mol	Joback Method
hf	-139.75	kJ/mol	Joback Method
hfus	1.53	kJ/mol	Joback Method
hvap	32.13	kJ/mol	Joback Method
log10ws	0.61		Crippen Method
logp	-0.177		Crippen Method
mcvol	14.580	ml/mol	McGowan Method
pc	8541.72	kPa	Joback Method
tb	290.88	K	Joback Method
tc	447.50	K	Joback Method
tf	166.95	K	Joback Method
vc	0.045	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	13.29	J/mol×K	290.88	Joback Method
cpg	14.34	J/mol×K	316.98	Joback Method
cpg	15.25	J/mol×K	343.09	Joback Method
cpg	16.01	J/mol×K	369.19	Joback Method
cpg	16.65	J/mol×K	395.29	Joback Method
cpg	17.17	J/mol×K	421.39	Joback Method
cpg	17.57	J/mol×K	447.50	Joback Method
dvisc	0.0185735	Pa×s	166.95	Joback Method
dvisc	0.0065698	Pa×s	187.60	Joback Method

dvisc	0.0028558	Pa×s	208.26	Joback Method
dvisc	0.0014428	Pa×s	228.91	Joback Method
dvisc	0.0008161	Pa×s	249.57	Joback Method
dvisc	0.0005037	Pa×s	270.23	Joback Method
dvisc	0.0003329	Pa×s	290.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C83285603&Units=SI
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

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

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