

Cycloheptanemethanol

Inchi:	InChI=1S/C8H16O/c9-7-8-5-3-1-2-4-6-8/h8-9H,1-7H2
InchiKey:	BMCQFFXPECPDPS-UHFFFAOYSA-N
Formula:	C8H16O
SMILES:	OCC1CCCCCCC1
Mol. weight [g/mol]:	128.21
CAS:	4448-75-3

Physical Properties

Property code	Value	Unit	Source
gf	-107.99	kJ/mol	Joback Method
hf	-312.52	kJ/mol	Joback Method
hfus	10.30	kJ/mol	Joback Method
hvap	50.68	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.949		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3611.55	kPa	Joback Method
tb	498.44	K	Joback Method
tc	696.02	K	Joback Method
tf	244.60	K	Joback Method
vc	0.427	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.65	J/mol×K	498.44	Joback Method
cpg	290.40	J/mol×K	531.37	Joback Method
cpg	305.37	J/mol×K	564.30	Joback Method
cpg	319.57	J/mol×K	597.23	Joback Method
cpg	333.03	J/mol×K	630.16	Joback Method
cpg	345.75	J/mol×K	663.09	Joback Method
cpg	357.76	J/mol×K	696.02	Joback Method
dvisc	0.0923760	Pa×s	244.60	Joback Method
dvisc	0.0140749	Pa×s	286.91	Joback Method

dvisc	0.0034781	Pa×s	329.21	Joback Method
dvisc	0.0011817	Pa×s	371.52	Joback Method
dvisc	0.0005006	Pa×s	413.83	Joback Method
dvisc	0.0002487	Pa×s	456.13	Joback Method
dvisc	0.0001392	Pa×s	498.44	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	486.20	K	95.20	NIST Webbook

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=C4448753&Units=SI

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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