

Endo-2-methyl-7-oxabi-cyclo[2.2.1]heptane

Inchi:	InChI=1S/C7H12O/c1-5-4-6-2-3-7(5)8-6/h5-7H,2-4H2,1H3/t5-,6?,7?/m0/s1
InchiKey:	YSPMLGNTRGMJLE-VTSJMTISA-N
Formula:	C7H12O
SMILES:	CC1CC2CCC1O2
Mol. weight [g/mol]:	112.17
CAS:	16325-22-7

Physical Properties

Property code	Value	Unit	Source
chl	-4219.30 ± 1.60	kJ/mol	NIST Webbook
chl	-4219.30 ± 1.60	kJ/mol	NIST Webbook
gf	23.63	kJ/mol	Joback Method
hf	-200.71	kJ/mol	Joback Method
hfl	-250.30 ± 2.10	kJ/mol	NIST Webbook
hfus	17.11	kJ/mol	Joback Method
hvap	35.38	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.574		Crippen Method
mcvol	93.640	ml/mol	McGowan Method
pc	3686.49	kPa	Joback Method
tb	399.59	K	Joback Method
tc	602.57	K	Joback Method
tf	223.34	K	Joback Method
vc	0.353	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.57	J/mol×K	399.59	Joback Method
cpg	206.46	J/mol×K	433.42	Joback Method
cpg	221.40	J/mol×K	467.25	Joback Method
cpg	235.44	J/mol×K	501.08	Joback Method
cpg	248.61	J/mol×K	534.91	Joback Method
cpg	260.98	J/mol×K	568.74	Joback Method

cpg	272.58	J/mol×K	602.57	Joback Method
dvisc	0.0007384	Pa×s	223.34	Joback Method
dvisc	0.0006900	Pa×s	252.72	Joback Method
dvisc	0.0006539	Pa×s	282.09	Joback Method
dvisc	0.0006260	Pa×s	311.46	Joback Method
dvisc	0.0006038	Pa×s	340.84	Joback Method
dvisc	0.0005857	Pa×s	370.21	Joback Method
dvisc	0.0005708	Pa×s	399.59	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=C16325227&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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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