

1H-Indene, 2-decyloctahydro-

Other names:	Bicyclo[4.3.0]nonane, 8-decyl- 8-decylbicyclo[4.3.0]nonane
Inchi:	InChI=1S/C19H36/c1-2-3-4-5-6-7-8-9-12-17-15-18-13-10-11-14-19(18)16-17/h17-19H,2-
InchiKey:	AFLBFEWFPHXHU-UHFFFAOYSA-N
Formula:	C19H36
SMILES:	CCCCCCCCCCC1CC2CCCCC2C1
Mol. weight [g/mol]:	264.49
CAS:	55044-34-3

Physical Properties

Property code	Value	Unit	Source
gf	186.59	kJ/mol	Joback Method
hf	-328.71	kJ/mol	Joback Method
hfus	36.01	kJ/mol	Joback Method
hvap	57.92	kJ/mol	Joback Method
log10ws	-6.84		Crippen Method
logp	6.734		Crippen Method
mvol	256.850	ml/mol	McGowan Method
pc	1331.98	kPa	Joback Method
tb	655.74	K	Joback Method
tc	844.89	K	Joback Method
tf	324.97	K	Joback Method
vc	0.989	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	766.91	J/molxK	655.74	Joback Method
cpg	791.15	J/molxK	687.27	Joback Method
cpg	814.11	J/molxK	718.79	Joback Method
cpg	835.84	J/molxK	750.32	Joback Method
cpg	856.40	J/molxK	781.84	Joback Method
cpg	875.84	J/molxK	813.37	Joback Method
cpg	894.21	J/molxK	844.89	Joback Method

dvisc	0.0034280	Paxs	324.97	Joback Method
dvisc	0.0017865	Paxs	380.10	Joback Method
dvisc	0.0010982	Paxs	435.23	Joback Method
dvisc	0.0007531	Paxs	490.36	Joback Method
dvisc	0.0005574	Paxs	545.48	Joback Method
dvisc	0.0004360	Paxs	600.61	Joback Method
dvisc	0.0003554	Paxs	655.74	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=C55044343&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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