1H-Indene, 2-butyl-5-hexyloctahydro-

Other names: Bicyclo[4.3.0]nonane, 8-butyl-3-hexyl-
2-n-Butyl-5-n-hexyl-(hexahydroindan)
8-butyl-3-hexylbicyclo[4.3.0]nonane
Inchi: InChI=1S/C19H36/c1-3-5-7-8-10-16-11-12-18-14-17(9-6-4-2)15-19(18)13-16/h16-19H,3-
InchiKey: FLHBJKDPWVFHDH-UHFFFAOYSA-N
Formula: C19H36
SMILES: CCCCCCC1CCC2CC(CCCC)CC2C1
Mol. weight [g/mol]: 264.49
CAS: 55044-33-2

Physical Properties

Property code	Value	Unit	Source
gf	178.88	kJ/mol	Joback Method
hf	-349.05	kJ/mol	Joback Method
hfus	37.08	kJ/mol	Joback Method
hvap	57.61	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	6.590		Crippen Method
mcvol	256.850	ml/mol	McGowan Method
pc	1300.47	kPa	Joback Method
tb	651.07	K	Joback Method
tc	840.02	K	Joback Method
tf	320.73	K	Joback Method
vc	0.988	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.61	J/mol×K	651.07	Joback Method
cpg	878.76	J/mol×K	808.53	Joback Method
cpg	858.92	J/mol×K	777.03	Joback Method
cpg	837.93	J/mol×K	745.54	Joback Method
cpg	815.75	J/mol×K	714.05	Joback Method
cpg	792.33	J/mol×K	682.56	Joback Method

cpg	897.51	J/mol×K	840.02	Joback Method
dvisc	0.0004189	Pa×s	651.07	Joback Method
dvisc	0.0004976	Pa×s	596.01	Joback Method
dvisc	0.0006120	Pa×s	540.96	Joback Method
dvisc	0.0007890	Pa×s	485.90	Joback Method
dvisc	0.0010854	Pa×s	430.84	Joback Method
dvisc	0.0016392	Pa×s	375.79	Joback Method
dvisc	0.0028523	Pa×s	320.73	Joback Method

Sources

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=C55044332&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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