1H-Indene, 2-butyl-1-hexyl-2,3-dihydro-

Other names: 2-n-Butyl-1-n-hexyl-(2,3-dihydroindene)
2-n-Butyl-1-n-hexylindan
Inchi: InChI=1S/C19H30/c1-3-5-7-8-13-18-16(11-6-4-2)15-17-12-9-10-14-19(17)18/h9-10,12,14
InchiKey: GTLIAIQJFVHQPN-UHFFFAOYSA-N
Formula: C19H30
SMILES: CCCCCCC1c2ccccc2CC1CCCC
Mol. weight [g/mol]: 258.44
CAS: 56247-75-7

Physical Properties

Property code	Value	Unit	Source
gf	264.92	kJ/mol	Joback Method
hf	-157.97	kJ/mol	Joback Method
hfus	37.82	kJ/mol	Joback Method
hvap	60.43	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	6.103		Crippen Method
mcvol	243.950	ml/mol	McGowan Method
pc	1446.83	kPa	Joback Method
tb	667.85	K	Joback Method
tc	863.04	K	Joback Method
tf	356.53	K	Joback Method
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	697.85	J/mol×K	667.85	Joback Method
cpg	718.64	J/mol×K	700.38	Joback Method
cpg	738.30	J/mol×K	732.91	Joback Method
cpg	756.89	J/mol×K	765.45	Joback Method
cpg	774.45	J/mol×K	797.98	Joback Method
cpg	791.06	J/mol×K	830.51	Joback Method
cpg	806.77	J/mol×K	863.04	Joback Method

dvisc	0.0019108	Pa×s	356.53	Joback Method
dvisc	0.0011946	Pa×s	408.42	Joback Method
dvisc	0.0008303	Pa×s	460.30	Joback Method
dvisc	0.0006212	Pa×s	512.19	Joback Method
dvisc	0.0004903	Pa×s	564.08	Joback Method
dvisc	0.0004027	Pa×s	615.96	Joback Method
dvisc	0.0003410	Pa×s	667.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56247757&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