1H-Indene, 5-butyl-6-hexyl-2,3-dihydro-

Other names: 5-n-Butyl-6-n-hexyl-(2,3-dihydroindene)
5-n-Butyl-6-n-hexylindan
Inchi: InChI=1S/C19H30/c1-3-5-7-8-11-17-15-19-13-9-12-18(19)14-16(17)10-6-4-2/h14-15H,3-
InchiKey: ZJQLBKPUALAMNC-UHFFFAOYSA-N
Formula: C19H30
SMILES: CCCCCCc1cc2c(cc1CCCC)CCC2
Mol. weight [g/mol]: 258.44
CAS: 55030-45-0

Physical Properties

Property code	Value	Unit	Source
gf	261.08	kJ/mol	Joback Method
hf	-140.23	kJ/mol	Joback Method
hfus	34.90	kJ/mol	Joback Method
hvap	62.37	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	5.641		Crippen Method
mcvol	243.950	ml/mol	McGowan Method
pc	1487.29	kPa	Joback Method
tb	687.15	K	Joback Method
tc	884.36	K	Joback Method
tf	390.05	K	Joback Method
vc	0.950	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	694.83	J/mol×K	687.15	Joback Method
cpg	714.37	J/mol×K	720.02	Joback Method
cpg	732.88	J/mol×K	752.89	Joback Method
cpg	750.40	J/mol×K	785.75	Joback Method
cpg	767.01	J/mol×K	818.62	Joback Method
cpg	782.76	J/mol×K	851.49	Joback Method
cpg	797.73	J/mol×K	884.36	Joback Method

dvisc	0.0015952	Pa×s	390.05	Joback Method
dvisc	0.0009732	Pa×s	439.57	Joback Method
dvisc	0.0006562	Pa×s	489.08	Joback Method
dvisc	0.0004758	Pa×s	538.60	Joback Method
dvisc	0.0003641	Pa×s	588.12	Joback Method
dvisc	0.0002905	Pa×s	637.63	Joback Method
dvisc	0.0002394	Pa×s	687.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55030450&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