Indan, 2-butyl-5-hexyl-

Other names: 2-n-Butyl-5-n-hexyl-(2,3-dihydroindene)
2-n-Butyl-5-n-hexylindan
Inchi: InChI=1S/C19H30/c1-3-5-7-8-10-16-11-12-18-14-17(9-6-4-2)15-19(18)13-16/h11-13,17H
InchiKey: JAUZOZVMGVOYCU-UHFFFAOYSA-N
Formula: C19H30
SMILES: CCCCCCc1ccc2c(c1)CC(CCCC)C2
Mol. weight [g/mol]: 258.44
CAS: 25446-32-6

Physical Properties

Property code	Value	Unit	Source
gf	263.00	kJ/mol	Joback Method
hf	-149.10	kJ/mol	Joback Method
hfus	36.36	kJ/mol	Joback Method
hvap	61.40	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.714		Crippen Method
mcvol	243.950	ml/mol	McGowan Method
pc	1466.85	kPa	Joback Method
tb	677.50	K	Joback Method
tc	873.70	K	Joback Method
tf	239.45 ± 0.50	K	NIST Webbook
vc	0.949	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	696.51	J/mol×K	677.50	Joback Method
cpg	787.03	J/mol×K	841.00	Joback Method
cpg	770.86	J/mol×K	808.30	Joback Method
cpg	753.78	J/mol×K	775.60	Joback Method
cpg	735.74	J/mol×K	742.90	Joback Method
cpg	716.67	J/mol×K	710.20	Joback Method
cpg	802.35	J/mol×K	873.70	Joback Method

dvisc	0.0002868	Pa×s	677.50	Joback Method
dvisc	0.0003436	Pa×s	626.80	Joback Method
dvisc	0.0004250	Pa×s	576.10	Joback Method
dvisc	0.0005478	Pa×s	525.39	Joback Method
dvisc	0.0007453	Pa×s	474.69	Joback Method
dvisc	0.0010915	Pa×s	423.99	Joback Method
dvisc	0.0017731	Pa×s	373.29	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=C25446326&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