1H-Indene, 2-hexadecyl-2,3-dihydro-

Other names: 2-n-Hexadecyl-(2,3-dihydroindene)
2-n-Hexadecylindan
Inchi: InChI=1S/C25H42/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-18-23-21-24-19-16-17-20-25(24
InchiKey: QRMLVRAWZSZLKS-UHFFFAOYSA-N
Formula: C25H42
SMILES: CCCCCCCCCCCCCCCCC1Cc2ccccc2C1
Mol. weight [g/mol]: 342.60
CAS: 56248-65-8

Physical Properties

Property code	Value	Unit	Source
gf	323.15	kJ/mol	Joback Method
hf	-261.47	kJ/mol	Joback Method
hfus	52.29	kJ/mol	Joback Method
hvap	74.09	kJ/mol	Joback Method
log10ws	-9.01		Crippen Method
logp	8.273		Crippen Method
mcvol	328.490	ml/mol	McGowan Method
pc	993.88	kPa	Joback Method
tb	809.80	K	Joback Method
tc	1001.64	K	Joback Method
tf	428.39	K	Joback Method
vc	1.284	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1054.75	J/mol×K	809.80	Joback Method
cpg	1076.18	J/mol×K	841.77	Joback Method
cpg	1096.49	J/mol×K	873.75	Joback Method
cpg	1115.77	J/mol×K	905.72	Joback Method
cpg	1134.08	J/mol×K	937.70	Joback Method
cpg	1151.50	J/mol×K	969.67	Joback Method
cpg	1168.11	J/mol×K	1001.64	Joback Method

dvisc	0.0016213	Pa×s	428.39	Joback Method
dvisc	0.0008526	Pa×s	491.96	Joback Method
dvisc	0.0005194	Pa×s	555.53	Joback Method
dvisc	0.0003503	Pa×s	619.10	Joback Method
dvisc	0.0002543	Pa×s	682.66	Joback Method
dvisc	0.0001949	Pa×s	746.23	Joback Method
dvisc	0.0001558	Pa×s	809.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56248658&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