

Naphthalene, 2,7-diisopropyl

Inchi:	InChI=1S/C16H20/c1-11(2)14-7-5-13-6-8-15(12(3)4)10-16(13)9-14/h5-12H,1-4H3
InchiKey:	YGDMAJYAQC DTNG-UHFFFAOYSA-N
Formula:	C16H20
SMILES:	CC(C)c1ccc2ccc(C(C)C)cc2c1
Mol. weight [g/mol]:	212.33

Physical Properties

Property code	Value	Unit	Source
gf	278.76	kJ/mol	Joback Method
hf	20.53	kJ/mol	Joback Method
hfus	20.43	kJ/mol	Joback Method
hvap	55.67	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.087		Crippen Method
mcvol	193.080	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
ripol	1707.00		NIST Webbook
ripol	2219.00		NIST Webbook
ripol	2246.00		NIST Webbook
tb	620.22	K	Joback Method
tc	844.42	K	Joback Method
tf	324.24	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.58	J/molxK	620.22	Joback Method
cpg	508.84	J/molxK	657.59	Joback Method
cpg	525.92	J/molxK	694.95	Joback Method
cpg	541.89	J/molxK	732.32	Joback Method
cpg	556.83	J/molxK	769.68	Joback Method
cpg	570.80	J/molxK	807.05	Joback Method
cpg	583.89	J/molxK	844.42	Joback Method

dvisc	0.0020223	Paxs	324.24	Joback Method
dvisc	0.0010863	Paxs	373.57	Joback Method
dvisc	0.0006746	Paxs	422.90	Joback Method
dvisc	0.0004627	Paxs	472.23	Joback Method
dvisc	0.0003409	Paxs	521.56	Joback Method
dvisc	0.0002647	Paxs	570.89	Joback Method
dvisc	0.0002140	Paxs	620.22	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R569416&Units=SI

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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