2H-2,4a-Ethanonaphthalene, 1,3,4,5,6,7-hexahydro-2,5,5-trimethyl-

Other names: 2,5,5-Trimethyl-2,3,4,5,6,7-hexahydro-1H-2,4a-ethanonaphthalene
Inchi: InChI=1S/C15H24/c1-13(2)6-4-5-12-11-14(3)7-9-15(12,13)10-8-14/h5H,4,6-11H2,1-3H3
InchiKey: UMLOXPMLISZBGS-UHFFFAOYSA-N
Formula: C15H24
SMILES: CC12CCC3(CC1)C(=CCCC3(C)C)C2
Mol. weight [g/mol]: 204.35
CAS: 32391-44-9

Physical Properties

Property code	Value	Unit	Source
gf	225.23	kJ/mol	Joback Method
hf	-60.98	kJ/mol	Joback Method
hfus	4.65	kJ/mol	Joback Method
hvap	46.74	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.703		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2410.00	kPa	Joback Method
rinpol	1456.40		NIST Webbook
rinpol	1456.40		NIST Webbook
tb	580.49	K	Joback Method
tc	823.96	K	Joback Method
tf	387.05	K	Joback Method
vc	0.703	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.17	J/mol×K	580.49	Joback Method
cpg	525.02	J/mol×K	621.07	Joback Method
cpg	546.22	J/mol×K	661.65	Joback Method
cpg	566.25	J/mol×K	702.22	Joback Method
cpg	585.62	J/mol×K	742.80	Joback Method
cpg	604.84	J/mol×K	783.38	Joback Method

cpg	624.39	J/mol×K	823.96	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32391449&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:
https://www.chemeo.com/cid/75-069-3/2H-2-4a-Ethanonaphthalene-1-3-4-5-6-7-hexahydro-2-5-5-trimethyl.pdf
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