

Naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethylidene)- (4aR-trans)-

Other names:	Eudesma-4(14),7(11)-diene «gamma»-Selinene Selina-4(14),7(11)-diene (4«alpha»-trans)-Decahydro-4«alpha»-methyl-1-methylene-7-(1-methylethylidene)-naphthalene Eudesma-4(15),7(11)-diene Selina-4(15),7(11)-diene
Inchi:	InChI=1S/C15H24/c1-11(2)13-7-9-15(4)8-5-6-12(3)14(15)10-13/h14H,3,5-10H2,1-2,4H3
InchiKey:	RMZHSBMIZBMVMN-LOACHALJSA-N
Formula:	C15H24
SMILES:	C=C1CCCC2(C)CCC(=C(C)C)CC12
Mol. weight [g/mol]:	204.35
CAS:	515-17-3

Physical Properties

Property code	Value	Unit	Source
gf	233.02	kJ/mol	Joback Method
hf	-66.25	kJ/mol	Joback Method
hfus	14.03	kJ/mol	Joback Method
hvap	49.37	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.869		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
rinpol	1473.00		NIST Webbook
rinpol	1532.00		NIST Webbook
rinpol	1530.00		NIST Webbook
rinpol	1522.00		NIST Webbook
rinpol	1477.00		NIST Webbook
rinpol	1474.00		NIST Webbook
rinpol	1487.00		NIST Webbook
rinpol	1468.00		NIST Webbook
rinpol	1438.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1509.00		NIST Webbook
rinpol	1530.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1531.00		NIST Webbook

rinpol	1483.00		NIST Webbook
rinpol	1487.00		NIST Webbook
rinpol	1497.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1532.00		NIST Webbook
rinpol	1532.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1531.00		NIST Webbook
rinpol	1469.00		NIST Webbook
rinpol	1438.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1512.00		NIST Webbook
rinpol	1435.00		NIST Webbook
rinpol	1517.00		NIST Webbook
rinpol	1472.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1522.00		NIST Webbook
rinpol	1481.00		NIST Webbook
ripol	1672.00		NIST Webbook
ripol	1671.00		NIST Webbook
ripol	1690.00		NIST Webbook
ripol	1690.00		NIST Webbook
ripol	1671.00		NIST Webbook
ripol	1682.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1697.00		NIST Webbook
ripol	1690.00		NIST Webbook
ripol	1672.00		NIST Webbook
ripol	1676.00		NIST Webbook
ripol	1671.00		NIST Webbook
tb	579.08	K	Joback Method
tc	805.02	K	Joback Method
tf	314.59	K	Joback Method
vc	0.724	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.65	J/molxK	579.08	Joback Method
cpg	522.29	J/molxK	616.74	Joback Method
cpg	543.51	J/molxK	654.39	Joback Method

cpg	563.48	J/mol×K	692.05	Joback Method
cpg	582.36	J/mol×K	729.71	Joback Method
cpg	600.33	J/mol×K	767.36	Joback Method
cpg	617.54	J/mol×K	805.02	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C515173&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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