

2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-, (Z,Z)-

Other names:

cis,cis-Farnesol
(Z,Z)-Farnesol
(2Z,6Z)-Farnesol
Farnesol (Z,Z)

Inchi:

InChI=1S/C15H26O/c1-13(2)7-5-8-14(3)9-6-10-15(4)11-12-16/h7,9,11,16H,5-6,8,10,12H

InchiKey:

CRDAMVZIKSXKFV-FBXUGWQNSA-N

Formula:

C15H26O

SMILES:

CC(C)=CCCC(C)=CCCC(C)=CCO

Mol. weight [g/mol]:

222.37

CAS:

16106-95-9

Physical Properties

Property code	Value	Unit	Source
gf	153.61	kJ/mol	Joback Method
hf	-182.87	kJ/mol	Joback Method
hfus	35.37	kJ/mol	Joback Method
hvap	65.78	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	4.398		Crippen Method
mcvol	215.180	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
rinpol	1713.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1718.00		NIST Webbook
rinpol	1728.00		NIST Webbook
rinpol	1693.00		NIST Webbook
rinpol	1712.00		NIST Webbook
rinpol	1702.00		NIST Webbook
rinpol	1688.00		NIST Webbook
rinpol	1718.00		NIST Webbook
rinpol	1715.00		NIST Webbook
rinpol	1723.00		NIST Webbook
rinpol	1712.00		NIST Webbook
rinpol	1683.00		NIST Webbook
rinpol	1690.00		NIST Webbook

rinpol	1682.00		NIST Webbook
rinpol	1693.00		NIST Webbook
rinpol	1693.00		NIST Webbook
rinpol	1717.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1722.00		NIST Webbook
rinpol	1714.00		NIST Webbook
rinpol	1697.00		NIST Webbook
rinpol	1709.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1718.00		NIST Webbook
rinpol	1692.00		NIST Webbook
rinpol	1692.00		NIST Webbook
rinpol	1708.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1718.00		NIST Webbook
rinpol	1728.00		NIST Webbook
rinpol	1708.00		NIST Webbook
rinpol	1690.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1720.70		NIST Webbook
rinpol	1682.00		NIST Webbook
rinpol	1722.00		NIST Webbook
rinpol	1672.00		NIST Webbook
ripol	2287.00		NIST Webbook
ripol	2287.00		NIST Webbook
ripol	2287.00		NIST Webbook
ripol	2275.00		NIST Webbook
ripol	2335.00		NIST Webbook
ripol	2287.00		NIST Webbook
tb	646.90	K	Joback Method
tc	826.12	K	Joback Method
tf	262.51	K	Joback Method
vc	0.838	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	573.45	J/mol×K	646.90	Joback Method
cpg	588.94	J/mol×K	676.77	Joback Method
cpg	603.68	J/mol×K	706.64	Joback Method
cpg	617.71	J/mol×K	736.51	Joback Method
cpg	631.10	J/mol×K	766.38	Joback Method
cpg	643.89	J/mol×K	796.25	Joback Method
cpg	656.14	J/mol×K	826.12	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=C16106959&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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