

1-Dodecen-3-ol, 3,7,11-trimethyl

Inchi:	InChI=1S/C15H30O/c1-6-15(5,16)12-8-11-14(4)10-7-9-13(2)3/h6,13-14,16H,1,7-12H2,2-
InchiKey:	XLIJOVLDKFATNT-UHFFFAOYSA-N
Formula:	C15H30O
SMILES:	C=CC(C)(O)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	226.40
CAS:	3625-46-5

Physical Properties

Property code	Value	Unit	Source
gf	24.40	kJ/mol	Joback Method
hf	-399.04	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	62.92	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	4.556		Crippen Method
mcvol	223.780	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
rinpol	1504.00		NIST Webbook
ripol	1808.00		NIST Webbook
ripol	1808.00		NIST Webbook
tb	627.35	K	Joback Method
tc	797.94	K	Joback Method
tf	290.29	K	Joback Method
vc	0.853	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	617.86	J/mol×K	627.35	Joback Method
cpg	634.77	J/mol×K	655.78	Joback Method
cpg	650.87	J/mol×K	684.21	Joback Method
cpg	666.19	J/mol×K	712.64	Joback Method
cpg	680.78	J/mol×K	741.07	Joback Method
cpg	694.66	J/mol×K	769.50	Joback Method

cpg	707.88	J/mol×K	797.94	Joback Method
dvisc	0.0375017	Pa×s	290.29	Joback Method
dvisc	0.0047655	Pa×s	346.47	Joback Method
dvisc	0.0010769	Pa×s	402.64	Joback Method
dvisc	0.0003503	Pa×s	458.82	Joback Method
dvisc	0.0001456	Pa×s	515.00	Joback Method
dvisc	0.0000719	Pa×s	571.17	Joback Method
dvisc	0.0000403	Pa×s	627.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3625465&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
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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