1-Dodecene, 2,6,10-trimethyl

Inchi: InChI=1S/C15H30/c1-6-14(4)10-8-12-15(5)11-7-9-13(2)3/h14-15H,2,6-12H2,1,3-5H3
InchiKey: VAYNNCPEKZJMMK-UHFFFAOYSA-N
Formula: C15H30
SMILES: C=C(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]: 210.40

Physical Properties

Property code	Value	Unit	Source
gf	149.83	kJ/mol	Joback Method
hf	-247.85	kJ/mol	Joback Method
hfus	24.97	kJ/mol	Joback Method
hvap	47.62	kJ/mol	Joback Method
log10ws	-5.47		Crippen Method
logp	5.585		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1485.00	kPa	Joback Method
rinpol	1401.00		NIST Webbook
tb	538.28	K	Joback Method
tc	708.11	K	Joback Method
tf	213.09	K	Joback Method
vc	0.846	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.12	J/mol×K	538.28	Joback Method
cpg	557.37	J/mol×K	566.59	Joback Method
cpg	575.81	J/mol×K	594.89	Joback Method
cpg	593.46	J/mol×K	623.20	Joback Method
cpg	610.35	J/mol×K	651.50	Joback Method
cpg	626.50	J/mol×K	679.81	Joback Method
cpg	641.93	J/mol×K	708.11	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R46847&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
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