

trans-Geranylgeraniol

Other names:	2,6,10,14-Hexadecatetraen-1-ol, 3,7,11,15-tetramethyl-, (E,E,E)- All-trans-Geranylgeraniol Geranylgeraniol
Inchi:	InChI=1S/C20H34O/c1-17(2)9-6-10-18(3)11-7-12-19(4)13-8-14-20(5)15-16-21/h9,11,13,
InchiKey:	OJISWRZIEWCUBN-QIRCYJPOSA-N
Formula:	C20H34O
SMILES:	CC(C)=CCCC(C)=CCCC(C)=CCCC(C)=CCO
Mol. weight [g/mol]:	290.48
CAS:	24034-73-9

Physical Properties

Property code	Value	Unit	Source
gf	267.38	kJ/mol	Joback Method
hf	-178.64	kJ/mol	Joback Method
hfus	47.21	kJ/mol	Joback Method
hvap	76.95	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	6.124		Crippen Method
mcvol	281.330	ml/mol	McGowan Method
pc	1259.27	kPa	Joback Method
rinpol	2201.20		NIST Webbook
tb	765.34	K	Joback Method
tc	950.36	K	Joback Method
tf	299.82	K	Joback Method
vc	1.099	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	829.98	J/mol×K	765.34	Joback Method
cpg	847.35	J/mol×K	796.18	Joback Method
cpg	863.95	J/mol×K	827.01	Joback Method
cpg	879.85	J/mol×K	857.85	Joback Method
cpg	895.15	J/mol×K	888.69	Joback Method

cpg	909.90	J/mol×K	919.52	Joback Method
cpg	924.19	J/mol×K	950.36	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C24034739&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

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