(E)-1-(6,10-Dimethylundeca-5,9-dien-2-yl)-4-methy

Other names: Gerany-p-cymene
pentenylcurcumene
Inchi: InChI=1S/C20H30/c1-16(2)8-6-9-17(3)10-7-11-19(5)20-14-12-18(4)13-15-20/h8,10,12-15
InchiKey: IYQVATJMGUYOMV-LICLKQGHSA-N
Formula: C20H30
SMILES: CC(C)=CCCC(C)=CCCC(C)c1ccc(C)cc1
Mol. weight [g/mol]: 270.45
CAS: 55968-43-9

Physical Properties

Property code	Value	Unit	Source
gf	361.20	kJ/mol	Joback Method
hf	-21.49	kJ/mol	Joback Method
hfus	35.47	kJ/mol	Joback Method
hvap	62.74	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.571		Crippen Method
mcvol	260.300	ml/mol	McGowan Method
pc	1371.74	kPa	Joback Method
rinpol	1980.00		NIST Webbook
tb	696.30	K	Joback Method
tc	900.83	K	Joback Method
tf	301.02	K	Joback Method
vc	1.004	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.01	J/mol×K	696.30	Joback Method
cpg	743.14	J/mol×K	730.39	Joback Method
cpg	762.12	J/mol×K	764.48	Joback Method
cpg	780.05	J/mol×K	798.56	Joback Method
cpg	796.99	J/mol×K	832.65	Joback Method
cpg	813.01	J/mol×K	866.74	Joback Method

cpg	828.21	J/mol×K	900.83	Joback Method

Sources

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=C55968439&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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