(Z)-2-Methyl-6-(4-methyl-5-(3-methylbut-2-enoyl)cy

Inchi: InChI=1S/C20H28O2/c1-13(2)9-18(21)11-16(6)17-8-7-15(5)19(12-17)20(22)10-14(3)4/h7
InchiKey: LASOUTDTKMMTFN-WJDWOHSUSA-N
Formula: C20H28O2
SMILES: CC(C)=CC(=O)C=C(C)C1CC=C(C)C(C(=O)C=C(C)C)C1
Mol. weight [g/mol]: 300.44

Physical Properties

Property code	Value	Unit	Source
gf	111.76	kJ/mol	Joback Method
hf	-278.71	kJ/mol	Joback Method
hfus	41.17	kJ/mol	Joback Method
hvap	74.79	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	4.976		Crippen Method
mcvol	267.740	ml/mol	McGowan Method
pc	1426.15	kPa	Joback Method
rinpol	2117.50		NIST Webbook
rinpol	2117.50		NIST Webbook
tb	795.88	K	Joback Method
tc	1015.19	K	Joback Method
tf	374.32	K	Joback Method
vc	1.028	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	802.73	J/mol×K	795.88	Joback Method
cpg	821.51	J/mol×K	832.43	Joback Method
cpg	839.12	J/mol×K	868.98	Joback Method
cpg	855.65	J/mol×K	905.53	Joback Method
cpg	871.19	J/mol×K	942.09	Joback Method
cpg	885.84	J/mol×K	978.64	Joback Method
cpg	899.68	J/mol×K	1015.19	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U414277&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

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