

Dehydroabietol ethyl benzoate

Inchi:	InChI=1S/C28H36O2/c1-20(2)22-11-13-24-23(19-22)12-14-25-27(3,15-8-16-28(24,25)4)
InchiKey:	PXADAXYXIKCJHQ-UHFFFAOYSA-N
Formula:	C28H36O2
SMILES:	CC(C)c1ccc2c(c1)CCC1C(C)(CCOC(=O)c3ccccc3)CCCC21C
Mol. weight [g/mol]:	404.58

Physical Properties

Property code	Value	Unit	Source
gf	232.69	kJ/mol	Joback Method
hf	-277.79	kJ/mol	Joback Method
hfus	35.39	kJ/mol	Joback Method
hvap	90.12	kJ/mol	Joback Method
log10ws	-8.06		Crippen Method
logp	7.067		Crippen Method
mvol	343.580	ml/mol	McGowan Method
pc	1228.56	kPa	Joback Method
rinpol	3230.30		NIST Webbook
rinpol	3230.30		NIST Webbook
tb	997.04	K	Joback Method
tc	1243.96	K	Joback Method
tf	612.76	K	Joback Method
vc	1.298	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1211.02	J/mol×K	997.04	Joback Method
cpg	1241.08	J/mol×K	1038.19	Joback Method
cpg	1272.33	J/mol×K	1079.35	Joback Method
cpg	1305.15	J/mol×K	1120.50	Joback Method
cpg	1339.97	J/mol×K	1161.65	Joback Method
cpg	1377.17	J/mol×K	1202.81	Joback Method
cpg	1417.17	J/mol×K	1243.96	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U414719&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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