ar-Curcumen-10,11-diol

Inchi: InChI=1S/C15H22O2/c1-10(2)9-14(16)15(17)12(4)13-7-5-11(3)6-8-13/h5-9,12,14-17H,1-
InchiKey: CIGQSFSQDIHCFO-UHFFFAOYSA-N
Formula: C15H22O2
SMILES: CC(C)=CC(O)C(O)C(C)c1ccc(C)cc1
Mol. weight [g/mol]: 234.33

Physical Properties

Property code	Value	Unit	Source
gf	-31.09	kJ/mol	Joback Method
hf	-340.74	kJ/mol	Joback Method
hfus	24.76	kJ/mol	Joback Method
hvap	84.15	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	2.787		Crippen Method
mcvol	205.890	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
rinpol	1737.00		NIST Webbook
rinpol	1737.00		NIST Webbook
ripol	2636.00		NIST Webbook
ripol	2636.00		NIST Webbook
tb	761.34	K	Joback Method
tc	955.93	K	Joback Method
tf	355.35	K	Joback Method
vc	0.768	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.87	J/mol×K	761.34	Joback Method
cpg	611.94	J/mol×K	793.77	Joback Method
cpg	624.27	J/mol×K	826.20	Joback Method
cpg	635.91	J/mol×K	858.63	Joback Method
cpg	646.90	J/mol×K	891.06	Joback Method
cpg	657.30	J/mol×K	923.49	Joback Method

cpg	667.14	J/mol×K	955.93	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R229613&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume