

2,3-Dehydro-4-oxo-«beta»-ionol

Inchi:	InChI=1S/C13H18O2/c1-9(14)5-6-11-10(2)12(15)7-8-13(11,3)4/h5-9,14H,1-4H3/b6-5+
InchiKey:	FZJGHQBGWXPTDS-AATRIKPKSA-N
Formula:	C13H18O2
SMILES:	CC1=C(C=CC(C)O)C(C)(C)C=CC1=O
Mol. weight [g/mol]:	206.28

Physical Properties

Property code	Value	Unit	Source
gf	-63.43	kJ/mol	Joback Method
hf	-327.46	kJ/mol	Joback Method
hfus	16.91	kJ/mol	Joback Method
hvap	66.21	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.405		Crippen Method
mcvol	177.710	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
ripol	2800.00		NIST Webbook
ripol	2800.00		NIST Webbook
tb	688.63	K	Joback Method
tc	902.66	K	Joback Method
tf	403.07	K	Joback Method
vc	0.666	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.03	J/mol×K	688.63	Joback Method
cpg	500.81	J/mol×K	724.30	Joback Method
cpg	514.97	J/mol×K	759.97	Joback Method
cpg	528.62	J/mol×K	795.65	Joback Method
cpg	541.83	J/mol×K	831.32	Joback Method
cpg	554.72	J/mol×K	866.99	Joback Method
cpg	567.38	J/mol×K	902.66	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=U108723&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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