

(E)-5,6-Epoxy-«beta»-ionone

Other names:	trans- «beta»-Ionone epoxide (E)-4-(2,2,6-trimethyl-7-oxabicyclo[4.1.0]-heptan-1-yl)but-3-en-2-one
Inchi:	InChI=1S/C13H20O2/c1-10(14)6-9-13-11(2,3)7-5-8-12(13,4)15-13/h6,9H,5,7-8H2,1-4H3
InchiKey:	ZTJZJYUGOJYHCU-RMKNXTFCSA-N
Formula:	C13H20O2
SMILES:	CC(=O)C=CC12OC1(C)CCCC2(C)C
Mol. weight [g/mol]:	208.30

Physical Properties

Property code	Value	Unit	Source
hfus	15.55	kJ/mol	Joback Method
logp	2.869		Crippen Method
mcvol	175.450	ml/mol	McGowan Method
rinpol	1473.00		NIST Webbook
rinpol	1441.00		NIST Webbook
rinpol	1479.00		NIST Webbook
ripol	1995.00		NIST Webbook
ripol	2009.00		NIST Webbook
ripol	2015.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.73	J/mol×K	595.62	Joback Method
cpg	488.22		634.08	Joback Method
cpg	504.61	J/mol×K	672.54	Joback Method
cpg	520.30		710.99	Joback Method
cpg	535.71	J/mol×K	749.45	Joback Method
cpg	551.26		787.91	Joback Method
cpg	567.34	J/mol×K	826.37	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=R407155&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

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
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices

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