

# (E)-4-(3-Oxo-2,6,6-trimethylcyclohex-1-en-1-yl)-3-b

<b>Other names:</b>	trans-3-Oxo-«alpha»-ionol
<b>Inchi:</b>	InChI=1S/C13H20O2/c1-9-7-11(15)8-13(3,4)12(9)6-5-10(2)14/h5-7,10,12,14H,8H2,1-4H
<b>InchiKey:</b>	MDCGEAGEQVMWPE-AATRIKPKSA-N
<b>Formula:</b>	C13H20O2
<b>SMILES:</b>	CC1=CC(=O)CC(C)(C)C1C=CC(C)O
<b>Mol. weight [g/mol]:</b>	208.30

## Physical Properties

Property code	Value	Unit	Source
gf	-91.47	kJ/mol	Joback Method
hf	-394.11	kJ/mol	Joback Method
hfus	17.14	kJ/mol	Joback Method
hvap	64.95	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.485		Crippen Method
mcvol	182.010	ml/mol	McGowan Method
pc	2400.57	kPa	Joback Method
rinpol	1661.00		NIST Webbook
rinpol	1661.00		NIST Webbook
ripol	2659.00		NIST Webbook
ripol	2659.00		NIST Webbook
tb	679.82	K	Joback Method
tc	891.27	K	Joback Method
tf	385.55	K	Joback Method
vc	0.679	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.02	J/molxK	679.82	Joback Method
cpg	529.35	J/molxK	715.06	Joback Method
cpg	544.95	J/molxK	750.30	Joback Method
cpg	559.91	J/molxK	785.55	Joback Method
cpg	574.32	J/molxK	820.79	Joback Method

cpg	588.28	J/mol×K	856.03	Joback Method
cpg	601.88	J/mol×K	891.27	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R423320&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R423320&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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