

2-Butanone, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-

Other names:	«alpha»,«beta»-Dihydro-«beta»-ionone «beta»-Ionone, dihydro- Dihydro-«beta»-ionone 4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-2-butanone 4-(2,6,6-Trimethyl-1-cyclohexenyl)-2-butanone 7,8-Dihydro-«beta»-ionone 1-(1,1,5-Trimethylcyclohex-5-en-6-yl)-butan-3-one «beta»-7,8-Dihydroionone 7,8-dehydro-«beta»-ionone 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)butan-2-one 4-(1,1,5-Trimethylcyclohex-5-en-6-yl)-butan-3-one
Inchi:	InChI=1S/C13H22O/c1-10-6-5-9-13(3,4)12(10)8-7-11(2)14/h5-9H2,1-4H3
InchiKey:	QJJDNZGPQDGNDX-UHFFFAOYSA-N
Formula:	C13H22O
SMILES:	CC(=O)CCC1=C(C)CCCC1(C)C
Mol. weight [g/mol]:	194.31
CAS:	17283-81-7

Physical Properties

Property code	Value	Unit	Source
gf	-40.68	kJ/mol	Joback Method
hf	-319.83	kJ/mol	Joback Method
hfus	17.01	kJ/mol	Joback Method
hvap	52.17	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	3.882		Crippen Method
mcvol	180.440	ml/mol	McGowan Method
pc	2169.38	kPa	Joback Method
rinpol	1436.00		NIST Webbook
rinpol	1414.00		NIST Webbook
ripol	1849.00		NIST Webbook
tb	579.62	K	Joback Method
tc	789.51	K	Joback Method
tf	343.28	K	Joback Method
vc	0.686	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.66	J/mol×K	579.62	Joback Method
cpg	474.94	J/mol×K	614.60	Joback Method
cpg	492.25	J/mol×K	649.58	Joback Method
cpg	508.68	J/mol×K	684.57	Joback Method
cpg	524.34	J/mol×K	719.55	Joback Method
cpg	539.31	J/mol×K	754.53	Joback Method
cpg	553.72	J/mol×K	789.51	Joback Method

Sources

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=C17283817&Units=SI
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
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

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