

# Curdione

<b>Other names:</b>	6,10-Dimethyl-3-(1-methylethyl)-6-cyclodecene-1,4-dione, (3S-(3R*,6E,10R*))-3-Isopropyl-6,10-dimethyl-6-cyclodecene-1,4-dione, (3S-(3R*,6E,10R*))-3S,6E,10S)-6,10-Dimethyl-3-propan-2-ylcyclodec-6-ene-1,4-dione Germacr-1(10)-ene-5,8-dione
<b>Inchi:</b>	InChI=1S/C15H24O2/c1-10(2)13-9-14(16)12(4)7-5-6-11(3)8-15(13)17/h6,10,12-13H,5,7-
<b>InchiKey:</b>	KDPFMRXIVDLQKX-WDZFFZDKYSA-N
<b>Formula:</b>	C15H24O2
<b>SMILES:</b>	<chem>CC1=CCCC(C)C(=O)CC(C(C)C)C(=O)C1</chem>
<b>Mol. weight [g/mol]:</b>	236.35
<b>CAS:</b>	13657-68-6

## Physical Properties

Property code	Value	Unit	Source
gf	-183.53	kJ/mol	Joback Method
hf	-577.96	kJ/mol	Joback Method
hfus	15.44	kJ/mol	Joback Method
hvap	58.85	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.553		Crippen Method
mcvol	210.190	ml/mol	McGowan Method
pc	1911.91	kPa	Joback Method
rinpol	1689.00		NIST Webbook
rinpol	1717.00		NIST Webbook
rinpol	1689.00		NIST Webbook
rinpol	1726.00		NIST Webbook
rinpol	1689.00		NIST Webbook
rinpol	1689.00		NIST Webbook
rinpol	1725.20		NIST Webbook
tb	713.90	K	Joback Method
tc	956.91	K	Joback Method
tf	382.59	K	Joback Method
vc	0.769	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.90	J/molxK	713.90	Joback Method
cpg	654.71	J/molxK	754.40	Joback Method
cpg	676.68	J/molxK	794.90	Joback Method
cpg	696.72	J/molxK	835.40	Joback Method
cpg	714.74	J/molxK	875.90	Joback Method
cpg	730.66	J/molxK	916.41	Joback Method
cpg	744.39	J/molxK	956.91	Joback Method

## Sources

<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>
<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=C13657686&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13657686&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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