

# 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene-2,5-dione

<b>Inchi:</b>	InChI=1S/C10H12O2/c1-5-4-6(11)7-8(9(5)12)10(7,2)3/h4,7-8H,1-3H3
<b>InchiKey:</b>	BBRJZZUFDYMNIIY-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O2
<b>SMILES:</b>	CC1=CC(=O)C2C(C1=O)C2(C)C
<b>Mol. weight [g/mol]:</b>	164.20
<b>CAS:</b>	6617-34-1

## Physical Properties

Property code	Value	Unit	Source
gf	-95.33	kJ/mol	Joback Method
hf	-344.48	kJ/mol	Joback Method
hfus	10.45	kJ/mol	Joback Method
hvap	45.84	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	1.357		Crippen Method
mvol	128.880	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
rinpol	1324.10		NIST Webbook
tb	581.30	K	Joback Method
tc	822.92	K	Joback Method
tf	404.20	K	Joback Method
vc	0.498	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.42	J/molxK	581.30	Joback Method
cpg	351.28	J/molxK	621.57	Joback Method
cpg	366.28	J/molxK	661.84	Joback Method
cpg	380.54	J/molxK	702.11	Joback Method
cpg	394.18	J/molxK	742.38	Joback Method
cpg	407.31	J/molxK	782.65	Joback Method
cpg	420.04	J/molxK	822.92	Joback Method

# Sources

<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>
<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=C6617341&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6617341&amp;Units=SI</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>rinpola:</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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