

# Azuleno[4,5-b]furan-2,7-dione, 3,3a,4,5,9a,9b-hexahydro-3,6,9-trimethyl-, [3R-(3«alpha»,3a«beta»,9a«beta»,9b«alpha»)]-

<b>Inchi:</b>	Azuleno[4,5-b]furan-2,7-dione, 3,3a,4,5,9a,9b-hexahydro-3,6,9-trimethyl-, (3R,3aS,9aS,9bS)-, 3,6,9-Trimethyl-3,3a,4,5,9a,9b-hexahydroazuleno[4,5-b]furan-2,7-dione-, (3R,3aS,9aS,9bS)-
<b>InchiKey:</b>	BJPSSVHNEGMBDQ-UHFFFAOYSA-N
<b>Formula:</b>	C15H18O3
<b>SMILES:</b>	CC1=CC(=O)C2=C(C)CCC3C(C)C(=O)OC3C12
<b>Mol. weight [g/mol]:</b>	246.30
<b>CAS:</b>	5956-04-7

## Physical Properties

Property code	Value	Unit	Source
gf	-98.71	kJ/mol	Joback Method
hf	-505.76	kJ/mol	Joback Method
hfus	29.96	kJ/mol	Joback Method
hvap	64.68	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.420		Crippen Method
mcvol	190.040	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	2206.40		NIST Webbook
tb	751.08	K	Joback Method
tc	998.19	K	Joback Method
tf	496.40	K	Joback Method
vc	0.721	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.11	J/molxK	751.08	Joback Method
cpg	617.46	J/molxK	792.26	Joback Method
cpg	635.31	J/molxK	833.45	Joback Method
cpg	651.65	J/molxK	874.63	Joback Method

cpg	666.50	J/mol×K	915.82	Joback Method
cpg	679.87	J/mol×K	957.00	Joback Method
cpg	691.75	J/mol×K	998.19	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C5956047&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5956047&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>hvp:</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

Latest version available from:

<https://www.cheméo.com/cid/85-124-0/Azuleno-4-5-b-furan-2-7-dione-3-3a-4-5-9a-9b-hexahydro-3-6-9-trimethyl-3R->

Generated by Cheméo on 2024-04-20 03:45:45.334312507 +0000 UTC m=+15873994.254889821.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.