

# 1,3-Isobenzofurandione, hexahydro-

<b>Other names:</b>	1,2-Cyclohexanedicarboxylic anhydride Araldite HT 907 Hexahydrophthalic acid anhydride Hexahydrophthalic anhydride HHPA Lekutherm Hardener H NT 907 1,2-Cyclohexanedicarboxylic acid anhydride Cyclohexane-1,2-dicarboxylic anhydride NSC 8622
<b>Inchi:</b>	InChI=1S/C8H10O3/c9-7-5-3-1-2-4-6(5)8(10)11-7/h5-6H,1-4H2
<b>InchiKey:</b>	MUTGBJKUEZFXGO-UHFFFAOYSA-N
<b>Formula:</b>	C8H10O3
<b>SMILES:</b>	O=C1OC(=O)C2CCCCC12
<b>Mol. weight [g/mol]:</b>	154.16
<b>CAS:</b>	85-42-7

## Physical Properties

Property code	Value	Unit	Source
gf	-229.62	kJ/mol	Joback Method
hf	-488.73	kJ/mol	Joback Method
hfus	13.44	kJ/mol	Joback Method
hvap	46.75	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	0.876		Crippen Method
mcvol	110.870	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
tb	571.32	K	Joback Method
tc	824.11	K	Joback Method
tf	368.25	K	Joback Method
vc	0.408	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.71	J/mol×K	571.32	Joback Method
cpg	308.71	J/mol×K	613.45	Joback Method
cpg	324.69	J/mol×K	655.58	Joback Method
cpg	339.63	J/mol×K	697.72	Joback Method
cpg	353.51	J/mol×K	739.85	Joback Method
cpg	366.32	J/mol×K	781.98	Joback Method
cpg	378.03	J/mol×K	824.11	Joback Method
hfust	14.71	kJ/mol	235.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C85427&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85427&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>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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