

# 1H-Isoindole-1,3(2H)-dione, 5-amino-

<b>Other names:</b>	4-Aminophthalimide Phthalimide, 4-amino- Isoindole, 1,3(2H)-dione, 5-amino-
<b>Inchi:</b>	InChI=1S/C8H6N2O2/c9-4-1-2-5-6(3-4)8(12)10-7(5)11/h1-3H,9H2,(H,10,11,12)
<b>InchiKey:</b>	PXRKCOCTEMYUEG-UHFFFAOYSA-N
<b>Formula:</b>	C8H6N2O2
<b>SMILES:</b>	<chem>Nc1ccc2c(c1)C(=O)NC2=O</chem>
<b>Mol. weight [g/mol]:</b>	162.15
<b>CAS:</b>	3676-85-5

## Physical Properties

Property code	Value	Unit	Source
gf	87.07	kJ/mol	Joback Method
hf	-105.52	kJ/mol	Joback Method
hfus	20.61	kJ/mol	Joback Method
hvap	63.12	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	0.152		Crippen Method
mcvol	112.060	ml/mol	McGowan Method
pc	5327.93	kPa	Joback Method
tb	687.21	K	Joback Method
tc	962.71	K	Joback Method
tf	578.29	K	Joback Method
vc	0.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.25	J/mol×K	687.21	Joback Method
cpg	297.78	J/mol×K	733.13	Joback Method
cpg	308.42	J/mol×K	779.04	Joback Method
cpg	318.13	J/mol×K	824.96	Joback Method
cpg	326.88	J/mol×K	870.88	Joback Method
cpg	334.62	J/mol×K	916.79	Joback Method

cpg	341.32	J/mol×K	962.71	Joback Method
hsubt	135.30	kJ/mol	471.00	NIST Webbook

## 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=C3676855&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3676855&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>hsubt:</b>	Enthalpy of sublimation 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

Latest version available from:

<https://www.chemeo.com/cid/47-509-5/1H-Isoindole-1-3-2H-dione-5-amino.pdf>

Generated by Cheméo on 2024-04-25 19:14:05.988009751 +0000 UTC m=+16361694.908587062.

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