

# Benzenamine, 2-iodo-

<b>Other names:</b>	2-iodoaniline Aniline, o-iodo- aniline, 2-iodo- o-Aminoiodobenzene o-iodoaniline
<b>Inchi:</b>	InChI=1S/C6H6IN/c7-5-3-1-2-4-6(5)8/h1-4H,8H2
<b>InchiKey:</b>	UBPDKIDWEADHPP-UHFFFAOYSA-N
<b>Formula:</b>	C6H6IN
<b>SMILES:</b>	Nc1ccccc1I
<b>Mol. weight [g/mol]:</b>	219.02
<b>CAS:</b>	615-43-0

## Physical Properties

Property code	Value	Unit	Source
gf	226.99	kJ/mol	Joback Method
hf	168.55	kJ/mol	Joback Method
hfus	14.55	kJ/mol	Joback Method
hsub	81.30 ± 1.40	kJ/mol	NIST Webbook
hvap	51.90	kJ/mol	Joback Method
ie	8.35	eV	NIST Webbook
log10ws	-2.25		Crippen Method
logp	1.873		Crippen Method
mvol	107.440	ml/mol	McGowan Method
pc	4802.50	kPa	Joback Method
tb	534.01	K	Joback Method
tc	803.38	K	Joback Method
tf	337.64	K	Joback Method
tt	325.70	K	Measurement and Correlation of the Dissolution Equilibria of o-Iodoaniline and p-Iodoaniline in Pure Solvents
vc	0.381	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.75	J/molxK	534.01	Joback Method
cpg	196.92	J/molxK	578.90	Joback Method
cpg	205.30	J/molxK	623.80	Joback Method
cpg	212.94	J/molxK	668.69	Joback Method
cpg	219.91	J/molxK	713.59	Joback Method
cpg	226.26	J/molxK	758.48	Joback Method
cpg	232.06	J/molxK	803.38	Joback Method
hfust	19.38	kJ/mol	329.60	NIST Webbook
hfust	13.95	kJ/mol	333.00	NIST Webbook

## Sources

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Measurement and Correlation of the  
Dissolution Equilibria of o-Iodoaniline  
and p-Iodoaniline in Pure Solvents:

<https://www.doi.org/10.1021/acs.jced.7b00840>

Joback Method

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C615430&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## 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>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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