

# Iodoacetamide

<b>Other names:</b>	2-Iodoacetamide «alpha»-Iodoacetamide Acetamide, 2-iodo- Monoiodoacetamide Surauto USAF d-1 Alpha-iodo acetamide
<b>Inchi:</b>	InChI=1S/C2H4INO/c3-1-2(4)5/h1H2,(H2,4,5)
<b>InchiKey:</b>	PGLTVOMIXTUURA-UHFFFAOYSA-N
<b>Formula:</b>	C2H4INO
<b>SMILES:</b>	NC(=O)I
<b>Mol. weight [g/mol]:</b>	184.96
<b>CAS:</b>	144-48-9

## Physical Properties

Property code	Value	Unit	Source
gf	-38.39	kJ/mol	Joback Method
hf	-86.53	kJ/mol	Joback Method
hfus	12.14	kJ/mol	Joback Method
hvap	46.81	kJ/mol	Joback Method
log10ws	-0.82		Crippen Method
logp	-0.093		Crippen Method
mcvol	76.410	ml/mol	McGowan Method
pc	5809.41	kPa	Joback Method
tb	464.70	K	Joback Method
tc	702.84	K	Joback Method
tf	303.55	K	Joback Method
vc	0.271	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	114.74	J/mol×K	464.70	Joback Method
cpg	119.50	J/mol×K	504.39	Joback Method

cpg	123.92	J/mol×K	544.08	Joback Method
cpg	128.01	J/mol×K	583.77	Joback Method
cpg	131.80	J/mol×K	623.46	Joback Method
cpg	135.32	J/mol×K	663.15	Joback Method
cpg	138.57	J/mol×K	702.84	Joback Method

## Sources

<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=C144489&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C144489&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>

## 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>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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