

# Hexane, 3-iodo-

<b>Other names:</b>	3-Iodohexane
<b>Inchi:</b>	InChI=1S/C6H13I/c1-3-5-6(7)4-2/h6H,3-5H2,1-2H3
<b>InchiKey:</b>	QQKICFXKOIDMSQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H13I
<b>SMILES:</b>	CCCC(I)CC
<b>Mol. weight [g/mol]:</b>	212.07
<b>CAS:</b>	31294-91-4

## Physical Properties

Property code	Value	Unit	Source
gf	55.32	kJ/mol	Joback Method
hf	-95.58	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	37.94	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.000		Crippen Method
mcvol	121.220	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rinpol	1036.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	1036.00		NIST Webbook
ripol	1182.00		NIST Webbook
ripol	1182.00		NIST Webbook
tb	429.38	K	Joback Method
tc	634.59	K	Joback Method
tf	200.44	K	Joback Method
vc	0.454	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.62	J/mol×K	429.38	Joback Method
cpg	260.91	J/mol×K	600.38	Joback Method

cpg	251.72	J/molxK	566.18	Joback Method
cpg	242.02	J/molxK	531.98	Joback Method
cpg	231.78	J/molxK	497.78	Joback Method
cpg	220.99	J/molxK	463.58	Joback Method
cpg	269.61	J/molxK	634.59	Joback Method
dvisc	0.0003483	Paxs	429.38	Joback Method
dvisc	0.0004646	Paxs	391.22	Joback Method
dvisc	0.0006596	Paxs	353.07	Joback Method
dvisc	0.0010195	Paxs	314.91	Joback Method
dvisc	0.0017766	Paxs	276.75	Joback Method
dvisc	0.0036980	Paxs	238.60	Joback Method
dvisc	0.0101753	Paxs	200.44	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.41725e+01
Coeff. B	-3.66743e+03
Coeff. C	-6.37900e+01
Temperature range (K), min.	327.92
Temperature range (K), max.	477.67

## Sources

<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=C31294914&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31294914&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

**cpg:** Ideal gas heat capacity

<b>dvisc:</b>	Dynamic viscosity
<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>pvap:</b>	Vapor pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	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

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