

# 1-Iodo-2-methylnonane

<b>Inchi:</b>	InChI=1S/C10H21I/c1-3-4-5-6-7-8-10(2)9-11/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	QTODEOLPXXGOBE-UHFFFAOYSA-N
<b>Formula:</b>	C10H21I
<b>SMILES:</b>	CCCCCCCC(C)CI
<b>Mol. weight [g/mol]:</b>	268.18
<b>CAS:</b>	---

## Physical Properties

Property code	Value	Unit	Source
gf	89.00	kJ/mol	Joback Method
hf	-178.14	kJ/mol	Joback Method
hfus	22.54	kJ/mol	Joback Method
hvap	46.84	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	4.418		Crippen Method
mvol	177.580	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
tb	520.90	K	Joback Method
tc	715.99	K	Joback Method
tf	245.52	K	Joback Method
vc	0.677	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.75	J/molxK	520.90	Joback Method
cpg	450.89	J/molxK	683.47	Joback Method
cpg	438.27	J/molxK	650.96	Joback Method
cpg	424.97	J/molxK	618.44	Joback Method
cpg	410.97	J/molxK	585.93	Joback Method
cpg	396.24	J/molxK	553.41	Joback Method
cpg	462.88	J/molxK	715.99	Joback Method
dvisc	0.0002436	Paxs	520.90	Joback Method
dvisc	0.0003306	Paxs	475.00	Joback Method

dvisc	0.0004788	Paxs	429.11	Joback Method
dvisc	0.0007579	Paxs	383.21	Joback Method
dvisc	0.0013594	Paxs	337.31	Joback Method
dvisc	0.0029306	Paxs	291.42	Joback Method
dvisc	0.0084201	Paxs	245.52	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53486e+01
Coeff. B	-4.64633e+03
Coeff. C	-8.74200e+01
Temperature range (K), min.	395.92
Temperature range (K), max.	550.33

## 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=U101479&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U101479&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/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>

## Legend

<b>cpg:</b>	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>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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