

# Octacosane, 1-iodo-

Inchi:	InChI=1S/C28H57I/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-2
InchiKey:	HTERHJSPVTYONY-UHFFFAOYSA-N
Formula:	C28H57I
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCI
Mol. weight [g/mol]:	520.66

## Physical Properties

Property code	Value	Unit	Source
gf	243.00	kJ/mol	Joback Method
hf	-544.38	kJ/mol	Joback Method
hfus	72.68	kJ/mol	Joback Method
hvap	87.29	kJ/mol	Joback Method
log10ws	-12.49		Crippen Method
logp	11.584		Crippen Method
mcvol	431.200	ml/mol	McGowan Method
pc	648.12	kPa	Joback Method
rinpol	3354.00		NIST Webbook
tb	933.18	K	Joback Method
tc	1145.80	K	Joback Method
tf	463.38	K	Joback Method
vc	1.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1428.84	J/molxK	933.18	Joback Method
cpg	1536.69	J/molxK	1110.36	Joback Method
cpg	1517.39	J/molxK	1074.93	Joback Method
cpg	1497.05	J/molxK	1039.49	Joback Method
cpg	1475.58	J/molxK	1004.05	Joback Method
cpg	1452.87	J/molxK	968.62	Joback Method
cpg	1555.05	J/molxK	1145.80	Joback Method
dvisc	0.0000220	Paxs	933.18	Joback Method
dvisc	0.0000304	Paxs	854.88	Joback Method

dvisc	0.0000449	Paxs	776.58	Joback Method
dvisc	0.0000724	Paxs	698.28	Joback Method
dvisc	0.0001315	Paxs	619.98	Joback Method
dvisc	0.0002840	Paxs	541.68	Joback Method
dvisc	0.0007957	Paxs	463.38	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=U406322&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406322&amp;Units=SI</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>

## 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>rinpol:</b>	Non-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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