

# 1,6-Diiododecafluorohexane

<b>Other names:</b>	1,6-diiodoperfluorohexane
<b>Inchi:</b>	InChI=1S/C6F12I2/c7-1(8,3(11,12)5(15,16)19)2(9,10)4(13,14)6(17,18)20
<b>InchiKey:</b>	JOQDDLBOAIKFQX-UHFFFAOYSA-N
<b>Formula:</b>	C6F12I2
<b>SMILES:</b>	FC(F)(I)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)I
<b>Mol. weight [g/mol]:</b>	553.85
<b>CAS:</b>	375-80-4

## Physical Properties

Property code	Value	Unit	Source
gf	-2204.80	kJ/mol	Joback Method
hf	-2419.25	kJ/mol	Joback Method
hfus	12.58	kJ/mol	Joback Method
hvap	30.12	kJ/mol	Joback Method
log10ws	-7.10		Crippen Method
logp	5.583		Crippen Method
mcvol	168.280	ml/mol	McGowan Method
pc	1950.95	kPa	Joback Method
rinpol	1020.00		NIST Webbook
rinpol	1019.00		NIST Webbook
rinpol	1019.00		NIST Webbook
rinpol	1019.00		NIST Webbook
tb	494.82	K	Joback Method
tc	678.31	K	Joback Method
tf	295.10	K	Joback Method
vc	0.698	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.99	J/mol×K	494.82	Joback Method
cpg	385.77	J/mol×K	525.40	Joback Method
cpg	394.26	J/mol×K	555.98	Joback Method
cpg	401.58	J/mol×K	586.57	Joback Method

cpg	407.83	J/mol×K	617.15	Joback Method
cpg	413.13	J/mol×K	647.73	Joback Method
cpg	417.58	J/mol×K	678.31	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	388.00	K	13.30	NIST Webbook

## 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=C375804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C375804&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>
<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>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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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