

# Ethane, 1,1,2,2-tetrafluoro-1-iodo-

<b>Other names:</b>	Iodo-1,1,2,2-tetrafluoroethane
<b>Inchi:</b>	InChI=1S/C2HF4I/c3-1(4)2(5,6)7/h1H
<b>InchiKey:</b>	PIFDIGQPQUUCSG-UHFFFAOYSA-N
<b>Formula:</b>	C2HF4I
<b>SMILES:</b>	FC(F)C(F)(F)I
<b>Mol. weight [g/mol]:</b>	227.93
<b>CAS:</b>	354-41-6

## Physical Properties

Property code	Value	Unit	Source
gf	-754.76	kJ/mol	Joback Method
hf	-806.21	kJ/mol	Joback Method
hfus	6.72	kJ/mol	Joback Method
hvap	24.47	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.279		Crippen Method
mcvol	71.940	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
tb	314.50 ± 0.50	K	NIST Webbook
tc	510.18	K	Joback Method
tf	160.14	K	Joback Method
vc	0.290	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.09	J/mol×K	331.71	Joback Method
cpg	113.52	J/mol×K	361.46	Joback Method
cpg	118.50	J/mol×K	391.20	Joback Method
cpg	123.07	J/mol×K	420.95	Joback Method
cpg	127.24	J/mol×K	450.69	Joback Method
cpg	131.05	J/mol×K	480.44	Joback Method
cpg	134.50	J/mol×K	510.18	Joback Method

# 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=C354416&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C354416&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>
<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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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