

Iodopentafluorobenzene

Other names:	Iodopentafluorobenzene Pentafluoroiodobenzene Pentafluorophenyl iodide Iodoperfluorobenzene 2,3,4,5,6-Pentafluoroiodobenzene Perfluoroiodobenzene 1,2,3,4,5-Pentafluoro-6-iodo-benzene
Inchi:	InChI=1S/C6F5I/c7-1-2(8)4(10)6(12)5(11)3(1)9
InchiKey:	OPYHNLNYCRZOGY-UHFFFAOYSA-N
Formula:	C6F5I
SMILES:	Fc1c(F)c(F)c(I)c(F)c1F
Mol. weight [g/mol]:	293.96

Physical Properties

Property code	Value	Unit	Source
af	0.3788		Cheméo Relay (1.0)
chl	-2201.00 ± 13.00	kJ/mol	NIST Webbook
ea	1.41 ± 0.11	eV	NIST Webbook
gf	-852.03	kJ/mol	Joback Method
hf	-549.00 ± 13.00	kJ/mol	NIST Webbook
hfus	23.20	kJ/mol	Joback Method
hvap	57.90 ± 0.20	kJ/mol	NIST Webbook
ie	9.50 ± 0.10	eV	NIST Webbook
ie	9.54	eV	NIST Webbook
ie	9.54	eV	NIST Webbook
logp	2.987		Crippen Method
mcvol	106.310	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	434.20	K	NIST Webbook
tb	439.00	K	NIST Webbook
tc	634.19	K	Cheméo Relay (1.0)
tf	262.46	K	Cheméo Relay (1.0)
vc	0.391	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	184.49	J/mol×K	477.75	Joback Method
cpg	189.71	J/mol×K	511.07	Joback Method
cpg	194.67	J/mol×K	544.39	Joback Method
cpg	199.37	J/mol×K	577.71	Joback Method
cpg	203.82	J/mol×K	611.03	Joback Method
cpg	208.04	J/mol×K	644.36	Joback Method
cpg	212.01	J/mol×K	677.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C827156&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
ea:	Electron affinity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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