

Butane, 1,1,2,3,4,4-hexachloro-tetrafluoro-

Other names: 1,1,2,3,4,4-Hexachloro-1,2,3,4-tetrafluorobutane
Butane, 1,1,2,3,4,4-hexachloro-tetrafluoro-

Inchi: InChI=1S/C4Cl6F4/c5-1(11,3(7,8)13)2(6,12)4(9,10)14

InchiKey: WWVUFVKMWDUBV-UHFFFAOYSA-N

Formula: C4Cl6F4

SMILES: FC(Cl)(Cl)C(F)(Cl)C(F)(Cl)C(F)(Cl)Cl

Mol. weight [g/mol]: 336.75

Physical Properties

Property code	Value	Unit	Source
af	0.3390		Cheméo Relay (1.0)
gf	-856.66	kJ/mol	Joback Method
hf	-1008.37	kJ/mol	Cheméo Relay (1.0)
hfus	13.96	kJ/mol	Joback Method
hvap	52.22	kJ/mol	Cheméo Relay (1.0)
ie	11.18	eV	Cheméo Relay (1.0)
log10ws	-5.68		Cheméo Relay (1.0)
logp	4.997		Crippen Method
mcvol	147.740	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
tb	457.62	K	Cheméo Relay (1.0)
tc	671.07	K	Cheméo Relay (1.0)
tf	325.14	K	Cheméo Relay (1.0)
vc	0.547	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.30	J/mol×K	499.66	Joback Method
cpg	280.23	J/mol×K	536.12	Joback Method
cpg	286.03	J/mol×K	572.58	Joback Method
cpg	290.82	J/mol×K	609.04	Joback Method
cpg	294.70	J/mol×K	645.50	Joback Method
cpg	297.81	J/mol×K	681.96	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C375439&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):

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
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
log10ws:	Log10 of Water solubility in mol/l
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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