

Hexafluoroglutaryl fluoride

Other names:	Hexafluoroglutaryl fluoride
Inchi:	InChI=1S/C5F8O2/c6-1(14)3(8,9)5(12,13)4(10,11)2(7)15
InchiKey:	XAKMJUAGVWKMOb-UHFFFAOYSA-N
Formula:	C5F8O2
SMILES:	O=C(F)C(F)(F)C(F)(F)C(F)(F)C(=O)F
Mol. weight [g/mol]:	244.04

Physical Properties

Property code	Value	Unit	Source
hfus	14.30	kJ/mol	Joback Method
logp	1.885		Crippen Method
mcvol	98.610	ml/mol	McGowan Method
tb	327.85	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.71	J/mol×K	406.01	Joback Method
cpg	238.03	J/mol×K	431.26	Joback Method
cpg	245.74	J/mol×K	456.51	Joback Method
cpg	252.86	J/mol×K	481.77	Joback Method
cpg	259.43	J/mol×K	507.02	Joback Method
cpg	265.47	J/mol×K	532.27	Joback Method
cpg	271.00	J/mol×K	557.52	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C678784&Units=SI>
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

cpg: Ideal gas heat capacity
hfus: Enthalpy of fusion at standard conditions
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature

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