Benzene 1,2,4,5-tetrafluoro-3,6-dimethoxy-

Other names: Tetrafluorohydroquinone, dimethyl ether
1,2,4,5-Tetrafluoro-3,6-dimethoxybenzene
Inchi: InChI=1S/C8H6F4O2/c1-13-7-3(9)5(11)8(14-2)6(12)4(7)10/h1-2H3
InchiKey: WQXKGOOORHDGFP-UHFFFAOYSA-N
Formula: C8H6F4O2
SMILES: COc1c(F)c(F)c(OC)c(F)c1F
Mol. weight [g/mol]: 210.13
CAS: 362-56-1

Physical Properties

Property code	Value	Unit	Source
gf	-908.50	kJ/mol	Joback Method
hf	-1078.15	kJ/mol	Joback Method
hfus	23.27	kJ/mol	Joback Method
hvap	40.54	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.260		Crippen Method
mcvol	118.640	ml/mol	McGowan Method
pc	2646.11	kPa	Joback Method
rinpol	1069.80		NIST Webbook
tb	475.94	K	Joback Method
tc	649.82	K	Joback Method
tf	315.76	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.36	J/mol×K	475.94	Joback Method
cpg	263.54	J/mol×K	504.92	Joback Method
cpg	271.55	J/mol×K	533.90	Joback Method
cpg	279.37	J/mol×K	562.88	Joback Method
cpg	286.98	J/mol×K	591.86	Joback Method
cpg	294.37	J/mol×K	620.84	Joback Method

cpg	301.52	J/mol×K	649.82	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C362561&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume