

Sulfur, (2,2-difluoroethenyl)pentafluoro-, (OC-6-21)-

Inchi:	InChI=1S/C2HF7S/c3-2(4)1-10(5,6,7,8)9/h1H
InchiKey:	VOYOSNXBEXNYCU-UHFFFAOYSA-N
Formula:	C2HF7S
SMILES:	FC(F)=CS(F)(F)(F)(F)F
Mol. weight [g/mol]:	190.08
CAS:	58636-78-5

Physical Properties

Property code	Value	Unit	Source
gf	-1502.44	kJ/mol	Joback Method
hf	-1531.32	kJ/mol	Joback Method
hfus	18.79	kJ/mol	Joback Method
hvap	21.77	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	4.023		Crippen Method
mcvol	72.080	ml/mol	McGowan Method
pc	2995.87	kPa	Joback Method
tb	315.67	K	Joback Method
tc	463.43	K	Joback Method
vc	0.344	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	139.48	J/molxK	315.67	Joback Method
cpg	143.04	J/molxK	340.30	Joback Method
cpg	146.87	J/molxK	364.92	Joback Method
cpg	150.92	J/molxK	389.55	Joback Method
cpg	155.18	J/molxK	414.18	Joback Method
cpg	159.59	J/molxK	438.80	Joback Method
cpg	164.14	J/molxK	463.43	Joback Method

Sources

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=C58636785&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
vc:	Critical Volume

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