

sulfuryl chloride

Other names:	sulfonyl chloride sulfonyl dichloride sulfuric oxychloride sulphuryl chloride
Inchi:	InChI=1S/Cl2O2S/c1-5(2,3)4
InchiKey:	YBBRCQOCSYXUOC-UHFFFAOYSA-N
Formula:	Cl2O2S
SMILES:	O=S(=O)(Cl)Cl
Mol. weight [g/mol]:	134.97

Physical Properties

Property code	Value	Unit	Source
hfus	15.53	kJ/mol	Joback Method
ie	11.82	eV	Cheméo Relay (1.0)
logp	0.709		Crippen Method
mcvol	63.430	ml/mol	McGowan Method
tb	342.60	K	Vapor Liquid Equilibrium for the 1,1,1-Trifluorotrichloroethane + Sulfuryl Chloride System at 101.3 kPa

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	81.49	J/mol×K	322.04	Joback Method
cpg	83.44	J/mol×K	352.29	Joback Method
cpg	85.37	J/mol×K	382.54	Joback Method
cpg	87.27	J/mol×K	412.78	Joback Method
cpg	89.13	J/mol×K	443.03	Joback Method
cpg	90.95	J/mol×K	473.28	Joback Method
cpg	92.71	J/mol×K	503.53	Joback Method

pvap

101.30

kPa

342.60

Vapor Liquid
Equilibrium for
the
1,1,1-Trifluorotrichloroethane
+ Sulfuryl
Chloride System
at 101.3 kPa

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Vapor Liquid Equilibrium for the
1,1,1-Trifluorotrichloroethane + Sulfuryl
Chloride System at 101.3 kPa:

<https://www.doi.org/10.1021/je400544h>

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

Legend

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

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