

P-(N,N-DICHLOROSULFAMOYL)BENZOIC ACID

Other names:	Benzoic acid, 4-[(dichloroamino)sulfonyl]- Benzoic acid, p-(dichlorosulfamoyl)- p-(N,N-Dichlorosulfamoyl)benzoic acid p-(N,N-Dichlorosulfamyl)benzoic acid p-Carboxybenzenesulfondichloroamide p-Dichlorosulfamoylbenzoic acid p-Sulfondichloramidobenzoic acid Halazon Pantocid Pantocide Pantosid Pantotsid Pentocid Zeptabs Cloritines Parasulfondichloramido benzoic acid 4-(N,N-Dichlorosulfamoyl)benzoic acid Kyselina p-N,N-dichlorsulfamoylbenzoova NSC 60717
Inchi:	InChI=1S/C7H5Cl2NO4S/c8-10(9)15(13,14)6-3-1-5(2-4-6)7(11)12/h1-4H,(H,11,12)
InchiKey:	XPDVQPODLRGWPL-UHFFFAOYSA-N
Formula:	C7H5Cl2NO4S
SMILES:	O=C(O)c1ccc(S(=O)(=O)N(Cl)Cl)cc1
Mol. weight [g/mol]:	270.09

Physical Properties

Property code	Value	Unit	Source
af	0.7605		Cheméo Relay (1.0)
gf	-536.52	kJ/mol	Joback Method
hf	-406.34	kJ/mol	Cheméo Relay (1.0)
hfus	36.02	kJ/mol	Joback Method
hvap	109.53	kJ/mol	Cheméo Relay (1.0)
ie	9.59	eV	Cheméo Relay (1.0)
log10ws	-3.47		Cheméo Relay (1.0)
logp	1.683		Crippen Method
mcvol	155.720	ml/mol	McGowan Method
pc	5569.17	kPa	Joback Method

tb	590.58	K	Cheméo Relay (1.0)
tc	901.27	K	Cheméo Relay (1.0)
tf	503.03	K	Cheméo Relay (1.0)
vc	0.542	m ³ /kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.38	J/mol×K	672.35	Joback Method
cpg	351.04	J/mol×K	707.04	Joback Method
cpg	358.03	J/mol×K	741.72	Joback Method
cpg	364.35	J/mol×K	776.41	Joback Method
cpg	370.04	J/mol×K	811.09	Joback Method
cpg	375.09	J/mol×K	845.78	Joback Method
cpg	379.53	J/mol×K	880.47	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C80137&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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