Sulfacetamide

Other names:

A-500
Acetamide, N-[(4-aminophenyl)sulfonyl]-
Acetamide, N-sulfanilyl-
Acetocid
Acetosulfamin
Acetosulfamine
Albamine
Albucid
Alesten
Bleph-10
Bleph-10 liquifilm
Formosulfacetamide
Isopto cetamide
N'-Acetylsulfanilamide
N-((4-Aminophenyl)sulfonyl)acetamide
N-(p-Aminobenzenesulfonyl)acetamide
N-Acetylsulfanilamide
N-Sulfanilylacetamide
N-Sulphanilylacetamide
N-[(p-Aminophenyl)sulfonyl]acetamide
N1-Acetylsulfanilamide
NSC 63871
Oclucid
Op-sulfa 30
Ophthel-S
Region
Sebizon
Sulamyd
Sulf-10
Sulfacet
Sulfacetimide
Sulfacyl
Sulfanilacetamide
Sulfanilamide, N1-acetyl-
Sulfanilazetamid
Sulphacetamide
Sulphasil
Urosulfon
Urosulfone
p-Aminobenzenesulfonacetamide

p-Aminobenzenesulfonoacetamide

Inchi: InChI=1S/C8H10N2O3S/c1-6(11)10-14(12,13)8-4-2-7(9)3-5-8/h2-5H,9H2,1H3,(H,10,11)

InchiKey: SKIVFJLNDNKQPD-UHFFFAOYSA-N

Formula: C8H10N2O3S

SMILES: CC(=O)NS(=O)(=O)c1ccc(N)cc1

Mol. weight [g/mol]: 214.24

CAS: 144-80-9

Physical Properties

Property code	Value	Unit	Source
chs	-4405.80	kJ/mol	NIST Webbook
gf	-322.36	kJ/mol	Joback Method
hf	-462.06	kJ/mol	Joback Method
hfs	-773.60	kJ/mol	NIST Webbook
hfus	33.40	kJ/mol	Joback Method
hvap	78.80	kJ/mol	Joback Method
log10ws	-1.43		Aqueous Solubility Prediction Method
logp	0.094		Crippen Method
mcvol	149.440	ml/mol	McGowan Method
pc	5235.81	kPa	Joback Method
tb	638.45	K	Joback Method
tc	861.20	K	Joback Method
tf	455.82	K	Aqueous Solubility Prediction Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.52	J/mol×K	638.45	Joback Method
cpg	377.00	J/mol×K	675.58	Joback Method
cpg	387.62	J/mol×K	712.70	Joback Method
cpg	397.38	J/mol×K	749.83	Joback Method
cpg	406.29	J/mol×K	786.95	Joback Method
cpg	414.37	J/mol×K	824.08	Joback Method
cpg	421.62	J/mol×K	861.20	Joback Method
hfust	29.80	kJ/mol	455.20	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C144809&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume