3,4,5-Trimethoxybenzhydrazide

Other names: 3,4,5-Trimethoxybenzoic acid hydrazide
3,4,5-Trimethoxybenzoic hydrazide
Benzoic acid, 3,4,5-trimethoxy-, hydrazide
Benzhydrazide, 3,4,5-trimethoxy-
Benzohydrazide, 3,4,5-trimethoxy-
3,4,5-trimethoxybenzohydrazide

Inchi: InChI=1S/C10H14N2O4/c1-14-7-4-6(10(13)12-11)5-8(15-2)9(7)16-3/h4-5H,11H2,1-3H3,(

InchiKey: KQXHMNUXNHQSOW-UHFFFAOYSA-N

Formula: C10H14N2O4

SMILES: COc1cc(C(=O)NN)cc(OC)c1OC

Mol. weight [g/mol]: 226.23

CAS: 3291-03-0

Physical Properties

Property code	Value	Unit	Source
gf	-171.24	kJ/mol	Joback Method
hf	-469.59	kJ/mol	Joback Method
hfus	29.99	kJ/mol	Joback Method
hvap	73.17	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	0.316		Crippen Method
mcvol	167.140	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
tb	713.65	K	Joback Method
tc	931.11	K	Joback Method
tf	518.98	K	Joback Method
vc	0.612	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.17	J/mol×K	713.65	Joback Method
cpg	464.29	J/mol×K	749.89	Joback Method
cpg	475.62	J/mol×K	786.14	Joback Method

cpg	486.13	J/mol×K	822.38	Joback Method
cpg	495.80	J/mol×K	858.62	Joback Method
cpg	504.60	J/mol×K	894.87	Joback Method
cpg	512.51	J/mol×K	931.11	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3291030&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume