(R)-cysteine hydrochloride

Other names:	L-cysteine hydrochloride
Inchi:	InChI=1S/C3H7NO2S.ClH/c4-2(1-7)3(5)6;/h2,7H,1,4H2,(H,5,6);1H/t2-;/m0./s1
InchiKey:	IFQSXNOEEPCSLW-DKWTVANSSA-N
Formula:	C3H8ClNO2S
SMILES:	Cl.N[C@@H](CS)C(=O)O
Mol. weight [g/mol]:	157.62
CAS:	52-89-1

Physical Properties

Property code	Value	Unit	Source
hf	-443.15	kJ/mol	Cheméo Relay (1.0)
ie	10.06	eV	Cheméo Relay (1.0)
log10ws	-0.87		Cheméo Relay (1.0)
tf	546.49	K	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Measurement and Correlation for the Solid Solubility of Antioxidants of EDTA Disodium Salt Dihydrate, EDTA Calcium Disodium Salt Hydrate, and l-Cysteine Hydrochloride in Supercritical Carbon Dioxide: https://www.doi.org/10.1021/acs.jced.5b00589

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6001850&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
tf:	Normal melting (fusion) point

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https://www.chemeo.com/cid/71-284-8/R-cysteine-hydrochloride.pdf

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