

1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)

Other names:	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate 2-hydroxy-1,2,3-propanetricarboxylic acid monohydrate Citric acid monohydrat citric acid citric acid monohydrate
Inchi:	InChI=1S/C6H8O7.H2O/c7-3(8)1-6(13,5(11)12)2-4(9)10;/h13H,1-2H2,(H,7,8)(H,9,10)(H,
InchiKey:	YASYEJMMZJALEJ-UHFFFAOYSA-N
Formula:	C6H8O7.H2O
SMILES:	O.O=C(O)CC(O)(CC(=O)O)C(=O)O
Mol. weight [g/mol]:	210.14
CAS:	5949-29-1

Physical Properties

Property code	Value	Unit	Source
chs	-1952.00	kJ/mol	NIST Webbook
hfs	-1838.00	kJ/mol	NIST Webbook
ss	283.50	J/mol×K	NIST Webbook
ss	285.32	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	269.52	J/mol×K	300.00	NIST Webbook
cps	268.10	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C5949291&Units=SI>

Activity of Water in Aqueous Solutions of Sodium Citrate and in Aqueous Solutions of (An Inorganic Salt and Citric Acid) at 298.15 K: <https://www.doi.org/10.1021/je034258r>

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
ss:	Solid phase molar entropy at standard conditions

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