

7-hydroxyflavone

Inchi: InChI=1S/C15H10O3/c16-11-6-7-12-13(17)9-14(18-15(12)8-11)10-4-2-1-3-5-10/h1-9,16H
InchiKey: MQGPSCMMNJMKMHQ-UHFFFAOYSA-N
Formula: C15H10O3
SMILES: O=c1cc(-c2ccccc2)oc2cc(O)ccc12
Mol. weight [g/mol]: 238.24

Physical Properties

Property code	Value	Unit	Source
hfus	31.20	kJ/mol	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
log10ws	-8.58		Crippen Method
logp	3.166		Crippen Method
mcvol	172.840	ml/mol	McGowan Method
tf	515.30	K	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	248.10	J/molxK	293.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	253.10	J/molxK	298.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	259.10	J/mol×K	303.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	263.40	J/mol×K	308.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	268.20	J/mol×K	313.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	272.00	J/mol×K	318.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	276.80	J/mol×K	323.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	282.10	J/mol×K	328.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	286.00	J/mol×K	333.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	291.40	J/mol×K	338.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	295.30	J/mol×K	343.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	299.40	J/mol×K	348.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	303.60	J/mol×K	353.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	307.60	J/mol×K	358.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	312.30	J/mol×K	363.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	316.20	J/mol×K	368.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	320.70	J/mol×K	373.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	324.40	J/mol×K	378.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	328.20	J/mol×K	383.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	332.40	J/mol×K	388.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	336.00	J/mol×K	393.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	340.10	J/mol×K	398.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	343.30	J/mol×K	403.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	347.00	J/molxK	408.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	351.40	J/molxK	413.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	355.20	J/molxK	418.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	358.20	J/molxK	423.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	361.90	J/molxK	428.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	366.30	J/molxK	433.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	369.60	J/molxK	438.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	372.30	J/mol×K	443.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	376.70	J/mol×K	448.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	406.20	J/mol×K	498.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	382.70	J/mol×K	458.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	385.80	J/mol×K	463.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	388.50	J/mol×K	468.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	390.80	J/mol×K	473.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	391.90	J/molxK	478.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	394.00	J/molxK	483.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	398.10	J/molxK	488.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	400.90	J/molxK	493.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	379.50	J/molxK	453.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
hvapt	154.60	kJ/mol	473.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones:

<https://www.doi.org/10.1021/acs.jced.7b01034>

McCowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Legend

cps:	Solid phase heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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