

5-hydroxyflavone

Inchi:	InChI=1S/C15H10O3/c16-11-7-4-8-13-15(11)12(17)9-14(18-13)10-5-2-1-3-6-10/h1-9,16H
InchiKey:	IYBLVRRRCNVHZQJ-UHFFFAOYSA-N
Formula:	C15H10O3
SMILES:	O=c1cc(-c2ccccc2)oc2cccc(O)c12
Mol. weight [g/mol]:	238.24

Physical Properties

Property code	Value	Unit	Source
hfus	27.16	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	431.00	K	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	274.60	J/molxK	293.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	279.80	J/molxK	298.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	285.10	J/mol×K	303.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	289.40	J/mol×K	308.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	297.00	J/mol×K	313.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	302.80	J/mol×K	318.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	307.00	J/mol×K	323.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	311.20	J/mol×K	328.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	312.90	J/mol×K	333.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	315.90	J/molxK	338.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	319.50	J/molxK	343.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	323.80	J/molxK	348.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	328.80	J/molxK	353.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	334.40	J/molxK	358.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	338.50	J/molxK	363.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	344.80	J/molxK	368.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	347.90	J/mol×K	373.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	350.80	J/mol×K	378.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	355.60	J/mol×K	383.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	360.10	J/mol×K	388.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	365.30	J/mol×K	393.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	369.60	J/mol×K	398.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	373.80	J/mol×K	403.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

cps	377.70	J/mol×K	408.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	382.30	J/mol×K	413.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	387.60	J/mol×K	418.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
cps	395.50	J/mol×K	423.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
hvapt	113.00	kJ/mol	403.15	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones

Sources

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
McSweeney Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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