

1-(3,5-Dihydroxyphenyl)heptan-2-one

Inchi:	InChI=1S/C13H18O3/c1-2-3-4-5-11(14)6-10-7-12(15)9-13(16)8-10/h7-9,15-16H,2-6H2,1
InchiKey:	UYOAKZGQLBHUHR-UHFFFAOYSA-N
Formula:	C13H18O3
SMILES:	CCCCC(=O)Cc1cc(O)cc(O)c1
Mol. weight [g/mol]:	222.28
CAS:	15601-09-9

Physical Properties

Property code	Value	Unit	Source
gf	-267.17	kJ/mol	Joback Method
hf	-542.32	kJ/mol	Joback Method
hfus	36.63	kJ/mol	Joback Method
hvap	79.58	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.790		Crippen Method
mcvol	183.580	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
rinpol	2132.30		NIST Webbook
rinpol	2132.30		NIST Webbook
tb	738.63	K	Joback Method
tc	961.47	K	Joback Method
tf	536.06	K	Joback Method
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.48	J/molxK	738.63	Joback Method
cpg	536.25	J/molxK	775.77	Joback Method
cpg	548.43	J/molxK	812.91	Joback Method
cpg	560.14	J/molxK	850.05	Joback Method
cpg	571.51	J/molxK	887.19	Joback Method
cpg	582.68	J/molxK	924.33	Joback Method
cpg	593.77	J/molxK	961.47	Joback Method

dvisc	0.0000410	Paxs	536.06	Joback Method
dvisc	0.0000193	Paxs	569.82	Joback Method
dvisc	0.0000098	Paxs	603.58	Joback Method
dvisc	0.0000054	Paxs	637.35	Joback Method
dvisc	0.0000031	Paxs	671.11	Joback Method
dvisc	0.0000019	Paxs	704.87	Joback Method
dvisc	0.0000012	Paxs	738.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15601099&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
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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