

5-Ethoxy-2-hydroxy-m-xylene-alpha¹,alpha³-di

Other names:	5-Ethoxy-2-hydroxy-m-xylene-alpha
Inchi:	InChI=1S/C10H14O4/c1-2-14-9-3-7(5-11)10(13)8(4-9)6-12/h3-4,11-13H,2,5-6H2,1H3
InchiKey:	NBFKYLZEXFDQTQ-UHFFFAOYSA-N
Formula:	C10H14O4
SMILES:	CCOc1cc(CO)c(O)c(CO)c1
Mol. weight [g/mol]:	198.22
CAS:	131378-52-4

Physical Properties

Property code	Value	Unit	Source
gf	-406.79	kJ/mol	Joback Method
hf	-650.13	kJ/mol	Joback Method
hfus	30.07	kJ/mol	Joback Method
hvap	90.24	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	0.775		Crippen Method
mcvol	151.480	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
tb	752.24	K	Joback Method
tc	946.72	K	Joback Method
tf	509.51	K	Joback Method
vc	0.509	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.60	J/molxK	752.24	Joback Method
cpg	437.63	J/molxK	784.65	Joback Method
cpg	446.25	J/molxK	817.07	Joback Method
cpg	454.48	J/molxK	849.48	Joback Method
cpg	462.38	J/molxK	881.89	Joback Method
cpg	469.98	J/molxK	914.31	Joback Method
cpg	477.32	J/molxK	946.72	Joback Method
dvisc	0.0000708	Paxs	509.51	Joback Method

dvisc	0.0000248	Paxs	549.97	Joback Method
dvisc	0.0000101	Paxs	590.42	Joback Method
dvisc	0.0000046	Paxs	630.88	Joback Method
dvisc	0.0000023	Paxs	671.33	Joback Method
dvisc	0.0000012	Paxs	711.79	Joback Method
dvisc	0.0000007	Paxs	752.24	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C131378524&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/78-694-6/5-Ethoxy-2-hydroxy-m-xylene-alpha-1-alpha-3-diol.pdf>

Generated by Cheméo on 2024-04-25 04:08:34.185975422 +0000 UTC m=+16307363.106552734.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.