

Isophthalic acid, monochloride, 2-biphenyl ester

Inchi:	InChI=1S/C20H13ClO3/c21-19(22)15-9-6-10-16(13-15)20(23)24-18-12-5-4-11-17(18)14-
InchiKey:	QDHKTUJFUZDDEA-UHFFFAOYSA-N
Formula:	C20H13ClO3
SMILES:	O=C(Cl)c1cccc(C(=O)Oc2ccccc2-c2ccccc2)c1
Mol. weight [g/mol]:	336.77

Physical Properties

Property code	Value	Unit	Source
gf	60.72	kJ/mol	Joback Method
hf	-142.60	kJ/mol	Joback Method
hfus	37.48	kJ/mol	Joback Method
hvap	88.55	kJ/mol	Joback Method
log10ws	-7.05		Crippen Method
logp	4.952		Crippen Method
mvol	242.630	ml/mol	McGowan Method
pc	2261.11	kPa	Joback Method
rinpol	2714.00		NIST Webbook
rinpol	2714.00		NIST Webbook
tb	914.59	K	Joback Method
tc	1178.04	K	Joback Method
tf	571.47	K	Joback Method
vc	0.910	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	673.59	J/molxK	914.59	Joback Method
cpg	717.46	J/molxK	1134.13	Joback Method
cpg	711.01	J/molxK	1090.22	Joback Method
cpg	703.49	J/molxK	1046.32	Joback Method
cpg	694.81	J/molxK	1002.41	Joback Method
cpg	684.88	J/molxK	958.50	Joback Method
cpg	722.95	J/molxK	1178.04	Joback Method
dvisc	0.0000682	Paxs	914.59	Joback Method

dvisc	0.0000847	Paxs	857.40	Joback Method
dvisc	0.0001086	Paxs	800.22	Joback Method
dvisc	0.0001446	Paxs	743.03	Joback Method
dvisc	0.0002019	Paxs	685.84	Joback Method
dvisc	0.0002997	Paxs	628.66	Joback Method
dvisc	0.0004813	Paxs	571.47	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=U344574&Units=SI

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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