

Isophthalic acid, 2,6-dimethoxyphenyl isobutyl ester

Inchi:	InChI=1S/C20H22O6/c1-13(2)12-25-19(21)14-7-5-8-15(11-14)20(22)26-18-16(23-3)9-6-
InchiKey:	REHYAMUUOSHTRP-UHFFFAOYSA-N
Formula:	C20H22O6
SMILES:	COc1cccc(OC)c1OC(=O)c1cccc(C(=O)OCC(C)C)c1
Mol. weight [g/mol]:	358.39

Physical Properties

Property code	Value	Unit	Source
gf	-366.83	kJ/mol	Joback Method
hf	-776.80	kJ/mol	Joback Method
hfus	38.90	kJ/mol	Joback Method
hvap	89.40	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	3.736		Crippen Method
mvol	271.760	ml/mol	McGowan Method
pc	1659.19	kPa	Joback Method
rinpol	2791.00		NIST Webbook
rinpol	2791.00		NIST Webbook
tb	922.28	K	Joback Method
tc	1148.95	K	Joback Method
tf	579.34	K	Joback Method
vc	1.018	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	833.56	J/molxK	922.28	Joback Method
cpg	846.05	J/molxK	960.06	Joback Method
cpg	856.97	J/molxK	997.84	Joback Method
cpg	866.33	J/molxK	1035.61	Joback Method
cpg	874.10	J/molxK	1073.39	Joback Method
cpg	880.27	J/molxK	1111.17	Joback Method
cpg	884.84	J/molxK	1148.95	Joback Method
dvisc	0.0002222	Paxs	579.34	Joback Method

dvisc	0.0001369	Paxs	636.50	Joback Method
dvisc	0.0000913	Paxs	693.65	Joback Method
dvisc	0.0000648	Paxs	750.81	Joback Method
dvisc	0.0000483	Paxs	807.97	Joback Method
dvisc	0.0000374	Paxs	865.12	Joback Method
dvisc	0.0000299	Paxs	922.28	Joback Method

Sources

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=U344532&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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