

Isophthalic acid, butyl 4-formylphenyl ester

Inchi:	InChI=1S/C19H18O5/c1-2-3-11-23-18(21)15-5-4-6-16(12-15)19(22)24-17-9-7-14(13-20)8
InchiKey:	VNMWRULQUWDHKK-UHFFFAOYSA-N
Formula:	C19H18O5
SMILES:	CCCCOC(=O)c1cccc(C(=O)Oc2ccc(C=O)cc2)c1
Mol. weight [g/mol]:	326.34

Physical Properties

Property code	Value	Unit	Source
gf	-252.70	kJ/mol	Joback Method
hf	-560.55	kJ/mol	Joback Method
hfus	40.13	kJ/mol	Joback Method
hvap	88.80	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	3.675		Crippen Method
mvol	247.500	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
rinpol	2801.00		NIST Webbook
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tb	898.68	K	Joback Method
tc	1127.84	K	Joback Method
tf	568.09	K	Joback Method
vc	0.949	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	733.64	J/molxK	898.68	Joback Method
cpg	780.47	J/molxK	1089.65	Joback Method
cpg	773.49	J/molxK	1051.46	Joback Method
cpg	765.35	J/molxK	1013.26	Joback Method
cpg	756.01	J/molxK	975.07	Joback Method
cpg	745.45	J/molxK	936.87	Joback Method
cpg	786.31	J/molxK	1127.84	Joback Method
dvisc	0.0000710	Paxs	898.68	Joback Method

dvisc	0.0000883	Paxs	843.58	Joback Method
dvisc	0.0001131	Paxs	788.48	Joback Method
dvisc	0.0001504	Paxs	733.38	Joback Method
dvisc	0.0002096	Paxs	678.29	Joback Method
dvisc	0.0003096	Paxs	623.19	Joback Method
dvisc	0.0004932	Paxs	568.09	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=U344693&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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