1,2-Cyclohexanedicarboxylic acid, di(4-isopropyloxyphenyl) diester

Other names: 1,2-Cyclohexanedicarboxylic acid, di(4-isopropylphenyl) ester

Inchi: InChI=1S/C26H32O6/c1-17(2)29-19-9-13-21(14-10-19)31-25(27)23-7-5-6-8-24(23)26(28

InchiKey: IAPBHLNVYJWTHP-UHFFFAOYSA-N

Formula: C26H32O6

SMILES: CC(C)Oc1ccc(OC(=O)C2CCCCC2C(=O)Oc2ccc(OC(C)C)cc2)cc1

Mol. weight [g/mol]: 440.53

Physical Properties

Property code	Value	Unit	Source
gf	-292.38	kJ/mol	Joback Method
hf	-860.47	kJ/mol	Joback Method
hfus	44.21	kJ/mol	Joback Method
hvap	101.82	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	5.578		Crippen Method
mcvol	345.440	ml/mol	McGowan Method
pc	1243.33	kPa	Joback Method
rinpol	3038.00		NIST Webbook
tb	1069.02	K	Joback Method
tc	1315.15	K	Joback Method
tf	622.58	K	Joback Method
vc	1.280	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1185.41	J/mol×K	1069.02	Joback Method
cpg	1195.76	J/mol×K	1110.04	Joback Method
cpg	1203.66	J/mol×K	1151.06	Joback Method
cpg	1209.13	J/mol×K	1192.09	Joback Method
cpg	1212.19	J/mol×K	1233.11	Joback Method
cpg	1212.85	J/mol×K	1274.13	Joback Method
cpg	1211.13	J/mol×K	1315.15	Joback Method
dvisc	0.0001759	Pa×s	622.58	Joback Method

dvisc	0.0000940	Pa×s	696.99	Joback Method
dvisc	0.0000566	Pa×s	771.39	Joback Method
dvisc	0.0000373	Pa×s	845.80	Joback Method
dvisc	0.0000263	Pa×s	920.21	Joback Method
dvisc	0.0000196	Pa×s	994.61	Joback Method
dvisc	0.0000151	Pa×s	1069.02	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=U339582&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