

Isophthalic acid, pentyl 3-phenoxybenzyl ester

Inchi:	InChI=1S/C26H26O5/c1-2-3-7-16-29-25(27)21-11-9-12-22(18-21)26(28)30-19-20-10-8-1
InchiKey:	BYJYDCSEQYLEOK-UHFFFAOYSA-N
Formula:	C26H26O5
SMILES:	CCCCCOC(=O)c1cccc(C(=O)OCc2cccc(Oc3ccccc3)c2)c1
Mol. weight [g/mol]:	418.48

Physical Properties

Property code	Value	Unit	Source
gf	-86.83	kJ/mol	Joback Method
hf	-515.14	kJ/mol	Joback Method
hfus	51.20	kJ/mol	Joback Method
hvap	102.34	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	6.183		Crippen Method
mvol	326.670	ml/mol	McGowan Method
pc	1396.46	kPa	Joback Method
rinpol	3354.00		NIST Webbook
rinpol	3354.00		NIST Webbook
tb	1059.28	K	Joback Method
tc	1304.55	K	Joback Method
tf	653.63	K	Joback Method
vc	1.234	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1050.84	J/molxK	1059.28	Joback Method
cpg	1086.52	J/molxK	1263.67	Joback Method
cpg	1082.55	J/molxK	1222.79	Joback Method
cpg	1077.06	J/molxK	1181.91	Joback Method
cpg	1069.99	J/molxK	1141.04	Joback Method
cpg	1061.26	J/molxK	1100.16	Joback Method
cpg	1089.01	J/molxK	1304.55	Joback Method
dvisc	0.0000186	Paxs	1059.28	Joback Method

dvisc	0.0000235	Paxs	991.67	Joback Method
dvisc	0.0000307	Paxs	924.06	Joback Method
dvisc	0.0000418	Paxs	856.46	Joback Method
dvisc	0.0000600	Paxs	788.85	Joback Method
dvisc	0.0000922	Paxs	721.24	Joback Method
dvisc	0.0001549	Paxs	653.63	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U356607&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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

Latest version available from:

<https://www.chemeo.com/cid/15-587-4/Isophthalic-acid-pentyl-3-phenoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-04-23 08:16:01.913649695 +0000 UTC m=+16149410.834227010.

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