

Isophthalic acid, heptyl isopropyl ester

Inchi:	InChI=1S/C18H26O4/c1-4-5-6-7-8-12-21-17(19)15-10-9-11-16(13-15)18(20)22-14(2)3/h9
InchiKey:	WZSQSHGGPZBTIE-UHFFFAOYSA-N
Formula:	C18H26O4
SMILES:	CCCCCCCCOC(=O)c1cccc(C(=O)OC(C)C)c1
Mol. weight [g/mol]:	306.40

Physical Properties

Property code	Value	Unit	Source
gf	-266.82	kJ/mol	Joback Method
hf	-684.67	kJ/mol	Joback Method
hfus	38.08	kJ/mol	Joback Method
hvap	76.52	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	4.379		Crippen Method
mcvol	255.600	ml/mol	McGowan Method
pc	1562.28	kPa	Joback Method
rinpol	2249.00		NIST Webbook
rinpol	2249.00		NIST Webbook
tb	795.04	K	Joback Method
tc	997.07	K	Joback Method
tf	460.88	K	Joback Method
vc	0.978	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.78	J/mol×K	795.04	Joback Method
cpg	830.46	J/mol×K	963.40	Joback Method
cpg	818.82	J/mol×K	929.73	Joback Method
cpg	806.14	J/mol×K	896.06	Joback Method
cpg	792.42	J/mol×K	862.38	Joback Method
cpg	777.64	J/mol×K	828.71	Joback Method
cpg	841.10	J/mol×K	997.07	Joback Method
dvisc	0.0000662	Pa×s	795.04	Joback Method

dvisc	0.0000860	Pa×s	739.35	Joback Method
dvisc	0.0001165	Pa×s	683.65	Joback Method
dvisc	0.0001668	Pa×s	627.96	Joback Method
dvisc	0.0002558	Pa×s	572.27	Joback Method
dvisc	0.0004305	Pa×s	516.57	Joback Method
dvisc	0.0008214	Pa×s	460.88	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U343879&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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/89-152-5/Isophthalic-acid-heptyl-isopropyl-ester.pdf>

Generated by Cheméo on 2025-12-06 03:08:55.260219041 +0000 UTC m=+4738732.790259695.

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