

2,6-dipropylphenol

Inchi:	InChI=1S/C12H18O/c1-3-6-10-8-5-9-11(7-4-2)12(10)13/h5,8-9,13H,3-4,6-7H2,1-2H3
InchiKey:	NAILKKRDWBJCNH-UHFFFAOYSA-N
Formula:	C12H18O
SMILES:	CCCC1CCCC(CCC)c1O
Mol. weight [g/mol]:	178.28
CAS:	6626-32-0

Physical Properties

Property code	Value	Unit	Source
af	0.6597		Cheméo Relay (1.0)
gf	-1.68	kJ/mol	Joback Method
hf	-228.74	kJ/mol	Cheméo Relay (1.0)
hfus	26.27	kJ/mol	Joback Method
hvap	80.28	kJ/mol	Cheméo Relay (1.0)
ie	8.10	eV	Cheméo Relay (1.0)
log10ws	-3.30		Cheméo Relay (1.0)
logp	3.297		Crippen Method
mcvol	162.050	ml/mol	McGowan Method
pc	2755.56	kPa	Joback Method
tb	526.16	K	Cheméo Relay (1.0)
tc	742.49	K	Cheméo Relay (1.0)
tf	307.65	K	Cheméo Relay (1.0)
vc	0.589	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.01	J/mol×K	586.24	Joback Method
cpg	420.01	J/mol×K	621.59	Joback Method
cpg	434.12	J/mol×K	656.94	Joback Method
cpg	447.42	J/mol×K	692.29	Joback Method
cpg	459.97	J/mol×K	727.64	Joback Method
cpg	471.84	J/mol×K	762.99	Joback Method
cpg	483.11	J/mol×K	798.34	Joback Method

dvisc	0.0015633	Pa×s	375.66	Joback Method
dvisc	0.0006387	Pa×s	410.76	Joback Method
dvisc	0.0003005	Pa×s	445.85	Joback Method
dvisc	0.0001578	Pa×s	480.95	Joback Method
dvisc	0.0000904	Pa×s	516.05	Joback Method
dvisc	0.0000557	Pa×s	551.14	Joback Method
dvisc	0.0000363	Pa×s	586.24	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43403e+01
Coeff. B	-4.42755e+03
Coeff. C	-8.82540e+01
Temperature range (K), min.	361.81
Temperature range (K), max.	578.63

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

af:	Acentric Factor
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
hvac:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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