

p-Nitrophenyl decyl ether

Inchi: InChI=1S/C16H25NO3/c1-2-3-4-5-6-7-8-9-14-20-16-12-10-15(11-13-16)17(18)19/h10-13
InchiKey: FQIOGTJBANMZNX-UHFFFAOYSA-N
Formula: C16H25NO3
SMILES: CCCCCCCCCCOc1ccc([N+](=O)[O-])cc1
Mol. weight [g/mol]: 279.38

Physical Properties

Property code	Value	Unit	Source
hf	-299.16	kJ/mol	Cheméo Relay (1.0)
hfus	43.40	kJ/mol	Joback Method
hvap	97.86	kJ/mol	Cheméo Relay (1.0)
ie	8.92	eV	Cheméo Relay (1.0)
log10ws	-6.16		Cheméo Relay (1.0)
logp	5.114		Crippen Method
mcvol	235.830	ml/mol	McGowan Method
tb	615.64	K	Cheméo Relay (1.0)
tf	322.85	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.75	J/mol×K	771.40	Joback Method
cpg	716.03	J/mol×K	806.47	Joback Method
cpg	731.26	J/mol×K	841.54	Joback Method
cpg	745.47	J/mol×K	876.61	Joback Method
cpg	758.70	J/mol×K	911.68	Joback Method
cpg	770.99	J/mol×K	946.74	Joback Method
cpg	782.38	J/mol×K	981.81	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C31657371&Units=SI>

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/ci990307I>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/116-309-0/p-Nitrophenyl-decyl-ether.pdf>

Generated by Cheméo on 2026-07-21 10:14:11.833133523 +0000 UTC m=+139947.675018988.

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