

### What is DETERM?

DETERM is one of the **largest thermophysical databases in the world** containing:

- 4,200,000 data sets
- 129,500 mixtures
- 38,850 pure compounds

### What sort of data is present?

The data present in DETERM is broadly classed as **thermophysical**:

Phase equilibrium (activity coefficients, gas solubilities)

Azeotropic data

Excess properties (enthalpies, heat capacities, volumes)

Pure component properties

Caloric and acoustic properties

Electrochemical properties

Pressure-Volume-Temperature (PVT) properties

Transport properties

Surface properties

Thermal conductivities

Viscosities

Solubilities

Diffusion Coefficients

Eutectical Data

Access DETERM via the  
Chemical Database Service  
at [detherm.cds.rsc.org](http://detherm.cds.rsc.org)

email: [cds@rsc.org](mailto:cds@rsc.org)

## How can I search DETHERM?

DEThERM allows the searching of **pure substances** and **mixtures**.

Search for components and define a mixture:

Name	<input type="text"/>	(e.g. ethanol)
Sum formula	<input type="text"/>	(e.g. C <sub>2</sub> H <sub>6</sub> *)
CAS-Nr	<input type="text"/>	(e.g. 64-17-5)

- Enter a *Name* **or** a *Sum Formula* **or** a *CAS-Nr* to search for substances.
- You can use the \* wildcard with names and sum formulae.
- Enter a *Name* **and** a *Sum Formula* string to search for substances that should match **both** criteria.
- A field accepts multiple search strings separated by a ;.

## Where does the data come from?

The complete DETHERM database consists of **externally maintained packages**:

Electrolyte Data Collection (**ELDAR**)

Dortmund Data Bank (**DDB**)

Thermophysical Database (**INFOTHERM**)

Data Collection (**C-DATA**)

Thermophysical Parameter Database (**COMDOR**)

Solubility Database (**CAPEC-SDB**)

## How do I access DETHERM?

DEThERM is provided to the UK academic community via the **Royal Society of Chemistry-hosted Chemical Database Service** at [cds.rsc.org](http://cds.rsc.org). DETHERM has been developed by DECHEMA e.V. The Chemical Database Service is funded by the EPSRC.

Access is authenticated by UK academic IP address via [detherm.cds.rsc.org](http://detherm.cds.rsc.org). For off-campus working, a Chemical Database Service username / password will be issued.

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