

## Parameters

### Inputs

Chemical name	PROPANE (DIPPR)	
Use which representative rate	First 20% average (flammable)	
Evaporation from land or water	Land	
Type of release in pool	Instantaneous	
Type of pool growth on Land	Spreading	
Type of pool growth on Water		
Maximum pool surface area (m <sup>2</sup> )		
Mass flow rate of the source (kg/s)		
Duration of the release (s)		
Total mass released (kg)		297
Temperature of the pool (°C)		9
Temperature of the subsoil (°C)		9
Temperature of the water (°C)		
Max temperature difference between pool and water (K)		
Wind speed at 10 m height (m/s)		2
Ambient temperature (°C)		9
Ambient pressure (bar)		1,0151
Ambient relative humidity (%)		83
Solar radiation flux	User defined	
Solar heat radiation flux (W/m <sup>2</sup> )		120
Cloud cover (%)		
Date: day number		
Date: month number		
Date: year number		
North/South latitude of the location (deg)		
Type of subsoil (evaporation)	Average subsoil	
Subsoil roughness description (pool)	flat sandy soil, concrete, tiles, plant-yard	
Maximum evaluation time for evaporation (s)		1800

### Results

Heat flux from solar radiation (kW/m <sup>2</sup> )		0,12
Time pool spreading ends (s)		6
Time until pool has totally evaporated (s)		
Purple book representative evaporation rate (kg/s)		2,5312
Purple book representative evaporation duration (s)		114,69
Representative temperature (°C)		-42,04
Representative pool diameter (m)		7,5967
Density after mixing with air (kg/m <sup>3</sup> )		1,4975
Total evaporated mass (kg)		290,3
... duration evaporation time (s)		1799,5
Corresponding representative pool surface area (m <sup>2</sup> )		45,326
Schmidt number used		1,1893